ST. EDMUND'S COLLEGE

Estd. 1923

EDBYTES 2022

DEPARTMENT OF COMPUTER APPLICATION

The Editorial Board

From left to right: Toiarbor Mawlieh, Na-i Banroi Khyriem, Lapyndapbiang Kharumnuid, Jethro Jarvis Roy Jyrwa, Pravesh Burathoki, Rohit Barua &Pushpita Chakraborty(Not in photograph).

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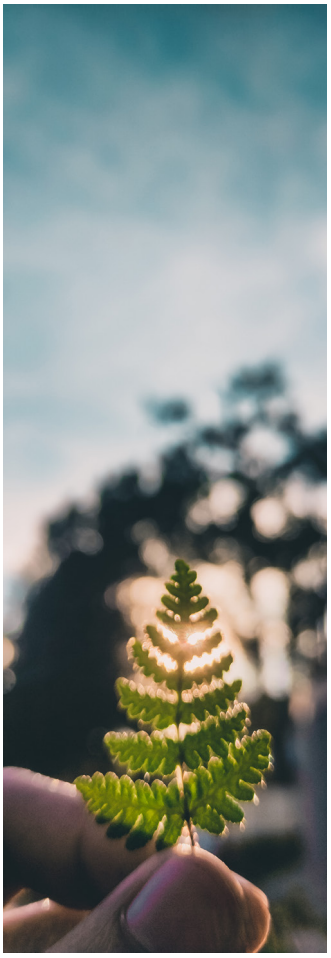


The Principal's message

First of all congratulations to the Department of Computer Application for the step taken to bring out the first issue of the Department Magazine in 2022. I wish them all success and sincerely hope that the steps they have taken will be followed by the present students and future students of the Department as well.

A department magazine is a record of the activities, ideas and talents of the students and Teachers in the Department. It is a training ground for team work for the Editorial Team, who will collect, edit, plan a layout, and look for finance before the magazine becomes a reality.

The advantage that students of Computer Application have is that computers are part and parcel of their daily life. In the past it has been proven that students of Computer Application are creative and use their imagination to bring to light their creativity and I sincerely hope that the first issue of the Department Magazine of Computer Application will be an example for others to imitate.

I wish the Editorial Team all the best and I hope that those who read the articles and write ups in the magazine will be inspired.

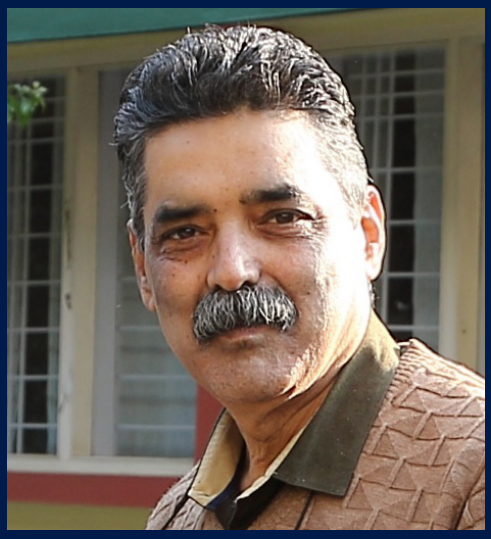
God bless you.

Dr. Sylvanus Lamare,

Principal,

St. Edmund's College.

The Vice Principal's message



Since its inception the Computer Application (BCA) Department has made excellent progress in all fronts and is among the most sought after courses offered in St. Edmund's College. So it hardly comes as a surprise to learn that the students and faculty of the Computer Application Department, St. Edmund's College, have been busy working on the publication of the maiden issue of EDBYTES, their Department Magazine.

A departmental magazine often acts as the mouthpiece of a department in the sense that it represents the culture and character of the department in general and the people behind it in particular. I am confident that the magazine will provide us with the right mix of information and creative skills.

On behalf of the College, and on my own behalf, I congratulate the teachers and students of BCA, particularly those who have rendered their unhindered support to ensure that the publication of EDBYTES becomes a reality.

Best wishes

Prof. Monotosh Chakravarty,

Vice Principal,

St. Edmund's College.

The Secretary's message

I take this opportunity to salute the Computer Application Department for this initiative to publish its maiden magazine – 'Edbytes'. It gives me great happiness to know that the staff and students have conceptualized the magazine.

Congratulations to the Head of the Department, the Faculty and the Students, especially the Editorial Board for the hard work, commitment and creativity that have been put into publishing the magazine.

I have no doubt that the Magazine will be unique, and will give St. Edmund's College enough reason to celebrate the effort, not only by way of the articles and art work by the students, but also for the futuristic thoughts it will spark in the young learners.

Wishing the entire Team the very best,

Br. Simon Coelho,

Secretary of the Governing Body,

St. Edmund's College.

The Dean's message

Dear Students, Ma'am Sarmistha Deb, Head of the Department and Faculty of Bachelor of Computer Application.

I am so happy to know that the Department of Computer Application, St Edmund's College will bring out its First Issue of the Department Magazine, "Edbytes". To provide a medium that sets in print the Department activities and to also encourage students to ignite their creative abilities is without a doubt a way of making indelible memories. I am sure the contents in "Edbytes" will provide intellectual 'bites' to showcase the dynamism of Computer Science and Application and to highlight the value of all artistic expressions.

I congratulate Ms. Rajni Khyriem, Teacher-in-charge and the Student Editorial team for their concerted effort to bring out the magazine.

My best wishes to all.

Dr. Mrs. Baljuda W.Nongbri,

Dean,

St. Edmund's College.

The HOD's message

It is indeed a matter of great pride for the Department of Computer Application to launch it's first Department magazine, EdBytes. This magazine is an authentic record of the various activities that are undertaken by the department .

Departmental magazine is a platform that plays an important role in developing and showcasing the talents of young minds. I am sure that the students will be benefitted to a large extent from the informative and educative contents of the magazine.

As a department, our aim is to remain at the forefront of learning, teaching and research. We strive hard to promote academic excellence and are committed to creating an ambience for fostering innovation and creativity. The students are encouraged to get hands-on experience in the corporate world through internship projects with reputed organizations.

I wish to place on record my whole hearted appreciation for the efforts put in by the faculty members specially Miss Rajni Khyriem and brilliant students of the Department, in bringing out the magazine successfully.

I am also thankful to the college management for all the support. I wish best of luck to all the students in their future endeavors and let us look forward to some more achievements in the coming year.

"The price of Success is hard work, Dedication to the job at hand, And the determination that we win or lose, We have applied the best of ourselves"

-Vince Lombardi

Prof. Sarmistha Deb,

HoD of Computer Application,

St. Edmund's College.

The Faculty's message

Greetings, it gives me immense pleasure to be part of such a hardworking department, which is continuously gearing up and monitoring to cope-up with emerging trends of technological development and innovations.We learn and experience something new every day. We not only believe in imparting in-depth knowledge in a particular field but also ensure that our students are competent and shine in their every endeavor. We believe in the constant growth of our students, which they have proven time and again.

Academic sessions after and during the pandemic have been an extraordinary challenge for everyone. However, it gave us both teachers and students a chance to realize that if you want to teach and learn, nothing can pull you back. Every step was a joint effort towards teaching and learning. It gave us (teachers) an opportunity to comprehend the potential of our students in handling challenges and stress.

Regardless of all these challenges faced by everyone in the college, I am proud to say that the BCA team has accomplished to publish its first ever Department magazine. It has been our collective effort to promote an inspirational, motivational, value-based academic and synergistic environment.

With this spirit and tempo being maintained, I am sure the Department of Computer Application, St. Edmund's College, will continue to see glory in future.

"When we tackle obstacles, we find hidden reserves of courage and resilience we did not know we had. And it is only when we are faced with failure do we realize that these resources were always there within us. We only need to find them and move on with our lives"
-A. P. J. Abdul Kalam

Prof. S.Sunila Chanu,

Department of Computer Application,

St. Edmund's College.

The Faculty's message

Dear Readers,

As I pen this message, a whirl of utmost gratitude and ardor sweeps through my heart. EdBytes is only the tip of the iceberg, the brainchild of a long haul of dedication and toil, with fervor as the one constant. I certainly owe the editorial board a special mention and applaud. The first of its kind for the department, EdBytes is unique and passes on a legacy for editions to come. I am only too eagerly waiting to be enriched by reading the variegated contributions in the magazine from authors across the student and teacher fraternity of St. Edmund's College. Bonne Lecture!

Prof. Reema Joshi,

Department of Computer Application,

St. Edmund's College.

The Faculty's message

Dear Students,

"Trust in the Lord with all your heart, and do not lean on your own understanding"
Proverb 3:5

As seconds turns to minutes, minutes to hours, hours to days and days to years, so should you grow in infinite wealth of knowledge the world has to offer.My association with St. Edmund's College which is incidentally my Alma Mater is long standing, as I had been a student and am at present a teacher. Therefore, I have witnessed the rough path the department has travelled to establish its identity. I could not have imagined that as a young department, in a very short span of time and amidst the difficult era that humanity faced, has been able to reach such a height and you, my students, are the core of inspiration and hope in the department.

I guess action does speak louder than words as the motto of our college: Facta non Verba.
May you continue to shine and make your presence felt. Keep on making my spine shiver as I hear the department name and its glory.

God Bless you all.

Prof. Melvin Star Majaw,

Department of Computer Application,

St. Edmund's College.

The Teacher-in-charge's message

It is a privilege and an honor to be associated with the 1st edition of EdBytes, the magazine of the Department of Computer Application. More than just a magazine,EdBytes is a window to the department. I place my gratitude towards the head of the department, Prof.Sarmistha Deb for believing in me and giving me the responsibility of working on EdBytes. The enthusiastic team of editors comprising our students (Pushpita Chakraborty, Rohit Barua, Toiarbor Mawlieh, Pravesh Burathoki,Na-i Banroi Khyriem, Lapyndapbiang Kharumnuid and Jethro Jarvis Roy Jyrwa) has made this journey a memorable one. From its inception to completion, EdBytes has been quite a journey. Long hours meetings to strict deadlines, we have gone forward and completed the magazine; and this has undoubtedly been a great learning experience for the entire team. Edbytes would never have seen the light of day without the contribution made from different quarters. From storytelling to poetry, sketching, photography to questioning "can machines think?"Edbytes is a humble amalgamation of the department's creativity and the work that Computer Application has been doing. We hope you have a good time going through this as much as we have had bringing this to you. Hence, we present to you Edbytes - a dream seen by every member of the department which is now a reality!

Prof. Rajni Khyriem,

Department of Computer Application,

St. Edmund's College.

The Editorial Board's message

Dear Readers,

It gives the Editorial Board immense pleasure to present to you the first issue of the Department of Computer Application's Magazine – EdBytes. Through blood, sweat and tears, hard work and toil, we are now able to bring our magazine to a readable output form (hopefully, without any errors!). At the onset, we would first like to thank God for guiding us throughout the process of the making of this magazine.

The success of EdBytes would have not been possible without the diligent and attentive hard work of the Board. Firstly, kudos to the Chief Editors of the magazine, Rohit Barua and Pushpita Chakraborty, the main brains behind EdBytes 2022 and also Pravesh Burathoki and Toiarbor Mawlieh, the Sub-Editors of the magazine, for tirelessly and wholeheartedly working on the culmination of the magazine. And one more appreciation goes to Toiarbor for designing the attractive and enigmatic Cover Page of EdBytes!

Special thanks is also due to Lapyndapbiang Kharumnuid for siphoning through the aesthetically pleasing artwork, Pravesh Burathoki, Toiarbor Mawlieh and Na-i Khyriem for the memes and their entertaining fun facts and jokes and Jethro Jarvis Roy Jyrwa for meticulously collecting the achievements of our proactive department students. Each of them compiled the source code of our magazine with flare and accuracy to give only the best output. And of course, none of us would have been able to do so without our main operator, mentor and teacher-in-charge, Prof. Rajni Khyriem!

We also extend our gratitude to all the Department Professors, Alumni of the Department and each and every one of our Department mates for all their inputs, be it articles, poems, and artwork, which definitely captures the students' ever burning love for learning. We hope that you are pleased with the Output! Working on this magazine has been an enriching learning experience, albeit hectic at times with the stress of assignment deadlines and exams knocking on the door (and also not to forget Edblazon fever) but as a team we managed to pull through to give our best for our department and we would expect nothing less from ourselves as BCA students!

Anyway, we will keep you here no longer as you have an entertaining stack of pages ahead to traverse through. We wish you eventful clock cycles of happy reading!

"The goal of Computer Science is To build something that Will last at least until we've finished building it"
- William C. Brown

Editorial Board.

ABOUT THE DEPARTMENT

St. Edmund's College introduced the Bachelor of Computer Application (BCA) course in the year 2010 as a part of the Department of Computer Science supported by Department of Commerce, Mathematics, English and Environmental Science. In February 2020, a separate department for the BCA course was formed, the Department Of Computer Application headed by Prof. Sarmistha Deb.

The department alongside with normal classes has been conducting a number of courses, both online and offline, for students of other departments and students of Computer Application as well. From 2021 up till now, the department has conducted 7 value added courses (2 online and 5 offline). During the same time period, the department has also successfully completed 8 different Spoken Tutorial courses (an initiative of the MHRD and IIT Bombay) for students of various departments. The coordinator of Spoken Tutorial Course is Prof. Sarmistha Deb and the course is co-ordinated by Prof. Rajni Khyriem.Even during the pandemic, the department has gone ahead to impart knowledge to the students, through various platforms online and also providing them with study materials and conducting practicals online. The department also conducted 3 webinars, 2 during the pandemic and 1 post lockdown.

The department has an in-house department club called "The House of Geeks" run by the students of the department. The department is basically a place for learning and sharing knowledge on technology. In March, 2022, the club hosted the first MLBB Tournament which was open to all students of the college.

The department also has its own alumni group formed in March, 2021. The alumni president, Ms. Elizabeth Thma, was a student of the first batch of BCA (2010 - 2013). Over the years, the alumni has helped students in career guidance and information related to post graduate admissions.

The students of the department are actively involved in various clubs and committees of the college. The also have spread awareness on various occasions through e-posters on World No Tobacco Day and World No Plastic Bag Day.

"Vita"

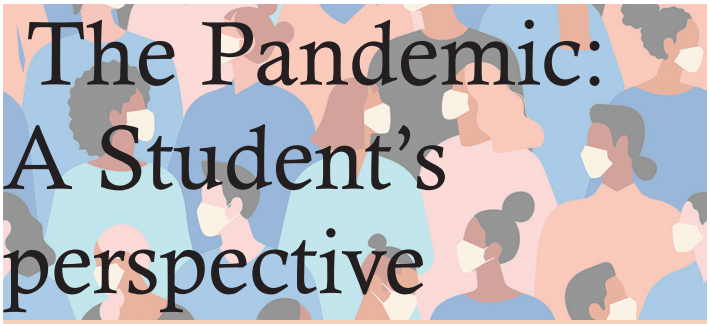
[latin wee-tah; LIFE]

We cannot choose to be born nor can we opt out of death·Birth and death are validities we have to abide by· Some people reckon that the things that happen to them are just luck while others believe that their lives are the results of the choices they create·The way we address our everyday life depends almost entirely on the commentary that is running through our minds·

Thoughts are causes, circumstances are situations everyone faces· Our minds are like sponges, everything is stored in a vast, comprehensive recess of the mind· If junk goes in, sooner or later the junk comes out· This is why having good thoughts are vital· Deceived, forsaken, misunderstood, betrayed, and disturbed; all of us have wrestled with such unfortunate emotions· So, it's true that life is a challenge whether we like it or not·

Therefore, be an impetus, and think outside the box· Be creative, and set goals for clear, targeted duties·
Watch for a powerful signpost to guide you· Let go of the past and look forward to the future, for what
awaits us might be a lot bigger than what we perpetually hope for·

Arijit Endow
Batch of 2022
Dept· of Computer Application



The Pandemic: A Student's perspective

Looking back, who would've thought it would turn out like this? As usual, we were getting ready for another long day of classes and the next minute, we hear the government announcing a national emergency concerning a virus outbreak.

The next few years found us in a state of chance freedom from school and yet, the mixed feelings of loneliness and what will happen next, creept in most days. We were blurred in our daily activities of going through social media, online classes, doing assignments, aimless searching on YouTube and, on exceptionally boring days, existential crisis.

Expectedly, drastic measures were taken for the sake of society's safety, including educational institutions, and we saw this led to a lack of communicating skills agreeably caused by the so-called social distancing, which raised different reactions from different individuals and students no less.

We are all struggling to keep in touch with every current matter now, even as the events may decrease or increase. Despite not knowing what will be ahead of us, we hope the quarantine did us good and brought out the need in us to keep on going forward and searching for a better view of how to keep moving forward; no matter what may happen.

By :-
Lapyndapbiang Kharumnuid
3rd Semester
Dept. of Computer Application

LADY ADA LOVELACE: THE FIRST COMPUTER PROGRAMMER

Today, a "programmer" is not an alien term as several people opt for studying in the field of computer science and of which many become programmers. But do you know who the first Computer Programmer was?

Augusta Ada King, Countess of Lovelace was born on 10th December 1815. She was the daughter of famed romantic poet Lord Byron and Annabella Milbanke Byron. She is considered to be the World's First Programmer. Her life began on a sour note as the marriage between her parents did not last as Annabelle separated from Lord Byron a few weeks after Ada was born, after which Lord Byron left England and Ada never met her father ever. To steer Ada away from developing the "volatile poetic insanity" of her father Lord Byron, Annabella emphasized music, French, science and mathematics in her daughter's studies. This last subject particularly appealed to Ada and thus began her journey into becoming considerably the world's first programmer.

After facing many struggles during her teenage years, Ada was finally presented at court (as was the custom of her social class back then, which was to bring a woman of age out into society in hopes of securing a marriage). During her season she danced and charmed the various attendees with her brilliant mind.

At the age of 17, on June 5th 1833, Ada met a personality who we all know today as the "Father of the Computer", English mathematician: Charles Babbage. Babbage went on to become friends with Ada and also a mentor to her and she became his prodigy. Ada was fascinated by Babbage's ideas. Babbage invented the Difference Engine which was revolutionary. It was meant to perform mathematical calculations using only addition by breaking the problem into smaller and smaller pieces known as the method of finite differences after which it would print out the values into a table. Ada got a chance to look at the machine before it was finished. She was captivated by it.

Babbage also created plans for another device known as the analytical engine, designed to handle more complex calculations (which however, never came to be). In 1840, Babbage was invited to give a seminar at the University of Turin about his Analytical Engine. Luigi Menabrea, a young Italian engineer and the future Prime Minister of Italy, transcribed Babbage's lecture into French, and this transcript was subsequently published in the Bibliothèque universelle de Genève in October 1842. Babbage's friend Charles Wheatstone commissioned Ada Lovelace to translate Menabrea's paper into English. She then augmented the paper with notes, which were added to the translation. Ada Lovelace spent the better part of a year doing this, assisted with input from Babbage. These notes, which are more extensive than Menabrea's paper, were then published in the September 1843 edition of Taylor's Scientific Memoirs under the initialism AAL.

Ada Lovelace's notes were labeled alphabetically from A to G. She also added thousands of words of her own notes to the paper. Lovelace realized that

the Analytical Engine could carry out an extensive sequence of mathematical operations. In note G, the example she wrote of one such sequence—how to calculate Bernoulli numbers—is regarded by computer historians as the first computer program. She even speculated that the Analytical Engine could be used to perform operations on "other things besides number," such as musical notes. Along with numbers, Ada also described how codes could be created for the device so it could handle letters and symbols. She also theorized a method for the engine to repeat a series of instructions or "looping" – a process computer programs still use today. Ada also offered up other concepts in her paper such as her thoughts on Artificial Intelligence. It is considered to be the first published algorithm ever specifically tailored for implementation on a computer, and Ada Lovelace has often been cited as the first computer programmer for this reason. The engine, however, was never completed so her program was never tested as Babbage argued with politicians for his machines and he could not get the funding from Parliament after the failure of his government funded Difference Engine as he lost an amount of money which was at that time worth two royal navy warships. Ada had a plan to pursue the working of the Analytical Engine by herself and Babbage would just help in the making of it, but he refused to give up control and denied all her requests.

Ada went on to marry William King on 8th July 1835 and had three children: Byron (born 1836), Anne Isabella (called Annabella, born 1837), and Ralph Gordon (born 1839). In 1838, her husband became the Earl of Lovelace, meaning Ada became the Countess of Lovelace.

In the 1840s, Ada flirted with scandals: firstly, from a relaxed approach to extra-marital relationships with men, leading to rumors of affairs; and secondly, from her love of gambling. She apparently lost more than £3,000 on the horses during the later 1840s. The gambling led to her forming a syndicate with male friends and an ambitious attempt in 1851 to create a mathematical model (probably the Analytical Engine) for successful large bets. This went disastrously wrong, leaving her thousands of pounds in debt to the syndicate, forcing her to admit it all to her husband. She had to then pawn some of her family jewels to get out of debt.

In 1852, Ada became gravely ill and took to her bed and died painfully and slowly from uterine cancer on November 27th 1852 at the age of 36. Her final wish was an act of defiance against her mother and she wanted to be buried next to her father whom she never met. Ada was taken miles away from home and was buried in the Byron Family Tomb inside the church of St. Mary Magdalene in the small English town of Hucknall.

In 1953, more than a century after her death, Ada Lovelace's notes on Babbage's Analytical Engine were republished as an appendix to B. V. Bowden's Faster than Thought: A Symposium on Digital Computing Machines. The engine has now been recognized as an early model for a computer and her notes as a description of a computer and software.

During the 1970s, the US Department of Defense developed a high order computer programming language to supersede the hundreds of different ones then in use by the military. This programming language was named "Ada".

In the present day an international celebration takes place on the second Tuesday of October – Ada Lovelace Day, to celebrate the contributions of women to science, technology, engineering, and mathematics (STEM).

However, there are still many controversies on whether or not Ada should be titled as "The First Computer Programmer".

Compiled by:-
Jethro Jarvis Roy Jyrwa
3rd Semester,
Dept. of Computer Application.

FUN FACT

THE FIRST BUG IN A COMPUTER WAS A DEAD MOTH FOUND SORTING A RELAY IN THE HARVARD MARK II COMPUTER IN 1947

CAN MACHINES THINK?

In the year 1950, Alan Mathison Turing, a young British polymath, asked a question in which Artificial Intelligence assimilated in the minds of scientists, mathematicians, and philosophers. Can machines think?

This was the logical framework of his 1950 paper, Computing Machinery and Intelligence in which he discussed how to build intelligent machines and how to test their intelligence.

Unfortunately, talk is cheap. What stopped Turing from getting to work was, firstly, computers needed to fundamentally change. Before 1949 computers lacked a key prerequisite for intelligence: they couldn't store commands, only execute them. In other words, computers could be told what to do but couldn't remember what they did. Secondly, computing was extremely expensive.

What is Artificial intelligence?

The term "Artificial intelligence" was coined by John McCarthy in 1956 in a proposal for the famous Dartmouth Summer Conference of 1956. This conference started AI as a field. Strangely, the philosophy of artificial intelligence precedes artificial intelligence itself by about 6 years which shows that Alan Turing was ahead of his time.

At its core, AI is the branch of computer science that aims to answer Turing's question in the affirmative. It is the endeavour to replicate or simulate human intelligence in machines. The expansive goal of artificial intelligence has given rise to many questions and debates. So much so, that no singular definition of the field is universally accepted. John McCarthy offers the following definition in his 2004 paper: "It is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable."

Artificial Intelligence is Everywhere We now live in the age of "big data" an age in which we have the capacity to collect huge sums of information too cumbersome for a person to process. The application of artificial intelligence in this regard has already been quite fruitful in several industries such as technology, banking, marketing, and entertainment. We've seen that even if algorithms don't improve much, big data and massive computing simply allow artificial intelligence to learn through brute force. There may be evidence that Moore's law is slowing down a tad, but the increase in data certainly hasn't lost any momentum. Breakthroughs in computer science, mathematics, and neuroscience all serve as potential outs through the ceiling of Moore's Law.

How does Artificial Intelligence work?

AI works by combining large amounts of data with fast, iterative processing and intelligent algorithms, allowing the software to learn automatically from patterns or features in the data. AI is a broad field of study that includes many theories, methods and technologies, as well as the following major subfields: Machine Learning automates analytical

model building. It uses methods from neural networks, statistics, operations research and physics to find hidden insights in data without explicitly being programmed for where to look or what to conclude.

A neural network is a type of machine learning that is made up of interconnected units (like neurons) that processes information by responding to external inputs, relaying information between each unit. The process requires multiple passes at the data to find connections and derive meaning from undefined data.

Deep learning uses huge neural networks with many layers of processing units, taking advantage of advances in computing power and improved training techniques to learn complex patterns in large amounts of data. Common applications include image and speech recognition.

Computer Vision relies on pattern recognition and deep learning to recognize what's in a picture or video. When machines can process, analyse and understand images, they can capture images or videos in real time and interpret their surroundings.

Natural Language Processing (NLP) is the ability of computers to analyse, understand and generate human language, including speech. The next stage of NLP is natural language interaction, which allows humans to communicate with computers using normal, everyday language to perform tasks.

Additionally, several technologies enable and support AI:

Graphical Processing Unit are key to AI because they provide the heavy computing power that is required for iterative processing. Training neural networks requires big data plus compute power.

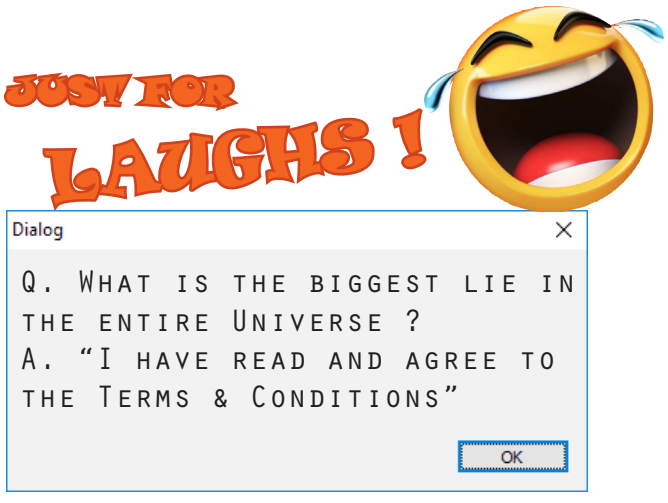
Internet of Things generates massive amounts of data from connected devices, most of which is unanalysed. Automating models with AI will allow us to use more of it.

Advance Algorithm are being developed and combined in new ways to analyse more data faster and at multiple levels. This intelligent processing is key to identifying and predicting rare events, understanding complex systems and optimizing unique scenarios.

APIs, or Application Programming Interfaces, are portable packages of code that make it possible to add AI functionality to existing products and software packages. They can add image recognition capabilities to home security systems and Q&A capabilities that describe data, create captions and headlines, or call out interesting patterns and insights in data.

In summary, the goal of AI is to provide software that can reason on input and explain on output. AI will provide human-like interactions with software and offer decision support for specific tasks, but it's not a replacement for humans – and won't be anytime soon. That is until…. AI builds AI!!

By:-
Prof. Melvin S. Majaw
Faculty, Dept of Computer Application



What Cryptocurrency actually is?

A cryptocurrency is an encrypted data string that denotes a unit of currency. It is monitored and organized by a peer-to-peer network called a blockchain, which also serves as a secure ledger of transactions, e.g., buying, selling, and transferring. Unlike physical money, cryptocurrencies are decentralized, which means they are not issued by governments or other financial institutions.

Cryptocurrencies are created (and secured) through cryptographic algorithms that are maintained and confirmed in a process called mining, where a network of computers or specialized hardware such as application-specific integrated circuits (ASICs) process and validate the transactions. The process incentivizes the miners who run the network with the cryptocurrency.

How are cryptocurrencies made and how do they Work?

Different cryptocurrencies have different digital architectures (code) so how they work varies. As an example, let's use bitcoin, which is "mined."

Here's how crypto mining works: networks of specialized computer processors running on vast amounts of electricity and producing an astonishing amount of noise and heat, compete to solve a mathematical puzzle — calculations required to verify the most recent bitcoin transactions, record them on the blockchain and ensure the blockchain is secure. The computer that solves the puzzle first wins newly minted bitcoin. This design is part of the open-source code created by the anonymous entity, known as Satoshi Nakamoto, who launched bitcoin in 2009.

All this about Decentralization?

An additional feature of the blockchain's design is that a public record of transactions is held on many computers that together form a global network. These computers — or nodes — constantly check information against each other to confirm their records' accuracy. The replication of these records across the network is part of what prevents an incorrect or fake transaction from being logged.

Together, the decentralized and open-source nature of the blockchain means that no one person or institution can control it, although governments and large corporations can limit access to digital tokens in certain circumstances. China, for instance, outlawed cryptocurrency trading in September 2021 because of concerns that cryptocurrencies could weaken the government's control over the financial system and were facilitating crime. More recently, a major cryptocurrency exchange, Binance, stopped processing purchases made with certain credit cards issued in Russia over its invasion of Ukraine.

Where does the "value" of cryptocurrencies come from?

This age-old question — who decides what a buck is worth? — is further complicated with cryptocurrencies. Unlike traditional currencies, no government, central bank or physical asset backs cryptocurrencies.

Instead, their values are based on people's faith in them, as determined by the market. Bankers hope that more and more people will want a digital currency that is relatively free from government oversight — and that, as people sink resources into cryptocurrencies, their value will increase over time.

Also, unlike traditional currencies, some cryptocurrencies function both as an investment and a potential unit of exchange. Some consumers buy bitcoin hoping they can eventually sell it for a profit. Others might use a fraction of a bitcoin to get a firecracker pork burrito at New Hampshire's Taco Beyondo — one of a growing list of businesses that accepts bitcoin as payment.

Cryptocurrency pros

- Supporters see cryptocurrencies such as Bitcoin as the currency of the future and are racing to buy them now, presumably before they become more valuable.
- Some supporters like the fact that cryptocurrency removes central banks from managing the money supply since over time these banks tend to reduce the value of money via inflation.
- In communities that have been underserved by the traditional financial system, some people see cryptocurrencies as a promising foothold. Pew Research Centre data from 2021 found that Asian, Black and Hispanic people "are more likely than White adults to say they have ever invested in, traded or used a cryptocurrency."
- Other advocates like the blockchain technology behind cryptocurrencies, because it's a decentralized processing and recording system and can be more secure than traditional payment systems.
- Some speculators like cryptocurrencies because they're going up in value and have no interest in the currencies' long-term acceptance as a way to move money.
- Some cryptocurrencies offer their owners the opportunity to earn passive through a process called staking. Crypto Staking involves using your cryptocurrencies to help verify transactions on a blockchain protocol. Though staking has its risks, it can allow you to grow your crypto holdings without buying more.

Cryptocurrency cons

- Many cryptocurrency projects are untested, and blockchain technology in general has yet to gain wide adoption. If the underlying idea behind cryptocurrency does not reach its potential, long-term investors may never see the returns they hoped for.
- For shorter-term crypto investors, there are other risks. Its prices tend to change rapidly, and while that means that many people have made money quickly by buying in at the right time, many others have lost money by doing so just before a Crypto Crash.
- Those wild shifts in value may also cut against the basic ideas behind the projects that cryptocurrencies were created to support. For example, people may be less likely to use Bitcoin as a payment system if they are not sure what it will be worth the next day.
- The environmental impact of Bitcoin and other projects that use similar mining protocols is significant. A comparison by the University of Cambridge, for instance, said worldwide Bitcoin mining consumes more than twice as much power as all U.S. residential lighting. Some cryptocurrencies use different technology that demands less energy.
- Governments around the world have not yet fully reckoned with how to handle cryptocurrency, so regulatory changes and crackdowns have the potential to affect the market in unpredictable ways.

By:-
Rohit Barua
Batch of 2022
Dept. of Computer Application

Amazon.com did not start as a complete e-commerce business but just as an online bookstore.

The Dark Side of WWW

WWW, the World Wide Web. Most people think that the Web has only 3 levels, the Surface Web, the Deep Web, and the Dark Web. But in reality, there are 8 levels of the World Wide Web. As we go down these levels, it becomes riskier and harder to access. Everything we see and use on the web is on the Surface web. Below that level, you
can find very weird things and also many illegal stuffs, like the selling of drugs and human trafficking. The 8 different levels are:

- Surface Web: This is the level which we commonly use. All the social media platforms and other websites like YouTube, Wikipedia is on this level. This levelof the World Wide Web is readily available to the general public. This level is only 4% of the World Wide Web.Bergie Web: It is the second level of the World Wide Web. The Bergie Web is not that hard to access and is not that dangerous. Here you can find things that are not allowed to be posted on the Surface web. For example, leaked videos of any incident or leaked evidence that cannot be posted on the surface web, can be found here.

- Deep Web: The Deep Web refers to that part of the Web which is not fully accessible through standard search engines like Google, Yahoo, and Bing. Here, you can mostly find hacking websites, where you can ask them to hack someoneâ€™s account, website or server by paying a specific amount. All transactions are done in cryptocurrency. But itâ€™s very risky as many times, the one paying them gets hacked and their data gets leaked.

- Charter Web: Charter Web can be classified into 2 parts: The Upper Charter Web and the Lower Charter Web. In the Upper Charter Web, the many illegal activities like human trafficking, organ trafficking, and purchase and selling of illegal drugs. In Lower Charter Web, you can buy experimental hardware, chemicals that cannot be bought legally. But the creepier thing that is found in Lower Charter Web is the information available there. One can get secret information like illegal experiments done during WW II, details about the â€œlaw of 13sâ€ . People who have accessed this level, also say that it also contains the exact location of Atlantis.

- Marianas Web: The name of this level is inspired by the Mariana Trench. Based on the research, this level may or may not exist. However, based on common consensus this is the place where the most secure data is. To access, we have to face some kind of algorithm and calculation that can only be done with quantum computers. One of the rumors is that we can access Marianas Web with the help of â€œPolymeric Falcighol Derivationâ€ , which requires Quantum Computers. Marianas Web is the weird perplexing web secret. There is no solid proof of its existence so it is depending on which rumor we believe.

- Level 6: This level is the intermediary between the Marianas Web and level 7 which is known as The Fog/ Virus Soup. At this point, a person starts getting the attention they do not want, i.e., people come to kill you. There are things in this world that can only lie among people themselves like drug lords and human traffickers, and once they know that a certain person is aware of their work, that personâ€™s life is at risk. This might sound unrealistic but it is happening.

- The Fog/Virus Soup: This level is like a war zone. Here, the majority of people are hackers who are trying to reach the next level. This is basically like a fight between people trying to overthrow the other for having only power of the internet in the world. Whoever has reached this level is trying to do one of the 2 things, either reach level 8 or stop others from reaching it.

- The Primarch System: This is the last level of the World Wide Web. The â€œlevel 8â€ is impossible to access directly or even by quantum computers. The PrimarchSystem is the thing controlling the internet at the time. No government has control of it. Nobody knows what lies within the Level 8 of the World Wide Web.Nobody even knows what it is. It was discovered by super deep web scans in the early 2000s. The Primarch System is believed to be unresponsive but it sends out unalterable commands to the entire internet randomly.

By:
Subhankar Deb Roy
3rd Semester
Dept. of Computer Application

You are not alone;
you are not the only one;

Let me start by asking: How are you doing? Is everything great? You must be wondering why am I asking questions about being okay or not.

How often do you ask if they are okay? How often are you being asked if you are, okay?

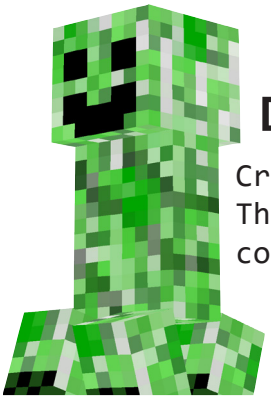
Growing up, I've learned a lot from being bullied to being appreciated. Some of us must have gone through the worst part of our life, well some may have not, this doesn't make you an unfortunate one. Some may have a childhood that they want to relive, while some pray for a better future. At one point we have been shamed and judged: for being skinny, fat, our way of dressing, acne, sexuality, gender, scars, stretch marks..... Till we have questioned our whole existence. We try so much to fit in this society, that we neglect our true selves. I'll let you decide who is more at fault the society or us for being who we are ?

Sometimes we feel like giving up on life. Have I ever thought about it? Yes. But, that didn't make me weak. It made me stronger than ever. Sometimes we try to run away from our problems: some may go to sleep, some may smoke, some may drink, some may eat a lot ....Well, it may seem ok for a while but it is just a transient feeling. If anything makes you feel anxious, learn to live with it until you can let go of it.

We are at a stage in life where a lot is happening, our first heartbreak, our first betrayal, broken friendship, lost connection with a family member, losing our loved ones, anxiety, stress, academic work, grades....It's all part of life. You are not the only one going through it, I did. Take your time to heal, cry it out, scream if you need, punch the wall or pillow if it satisfies you,....Let it out. Go out with your friends, talk with someone you trust the most, go out to nature...

Why I started with those questions, it's because it can save one's life, it did save mine. We are busy with our life; we may not have that time to talk about life. Sometimes we may want to talk but we are so scared that we just hold up within ourselves. So just ask "How are you doing?" "Is everything great?". It may be simple questions but they can make a big impact on someone.

By:-
Russel Cornwell Nongkhlaw
Batch of 2022
Dept. of Computer Application



Did you know ?

Creeper, written by Bob Thomas in 1971, is the first computer virus.

Learn it from the 'Weeb'

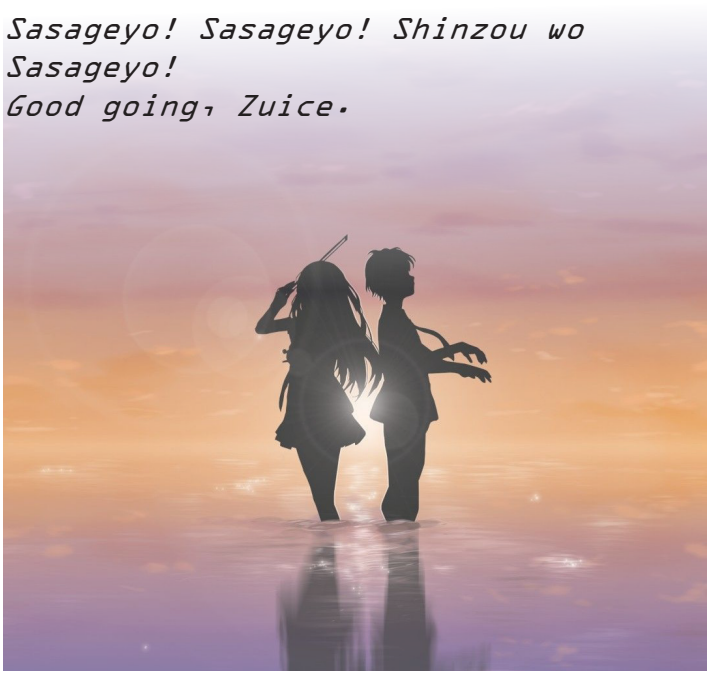
Hey, hey, hey!
Kon'nichiwa minnasan.
I'm Zuicely here with my other self whom I'd like to call Zuice to talk about Ani--!
Hora hora hora!
Did someone say Anime?
Let me at least complete my sentence Zuice.
So, we're going to learn a bit about "Anime"
Let's go!!!!

I'm pretty sure you guys have heard the word 'Anime' once in your life. But what really is 'Anime'?Well, Anime is an animation style that predominantly is created in Japan. While in Japan anime is used to describe all animated works of various origin, most audiences outside Japan use the term to refer to Japanese animations specifically due to its distinct style. Anime as an entire genre of entertainment has been revolutionary. Its art is rooted in Japan, but it has branched out worldwide. Anime is not just entertainment but also an emotion for most people who have incorporated it into their lives. It is a famous art style originating from China that first evolved and got popular as Japanese comic books known as manga.

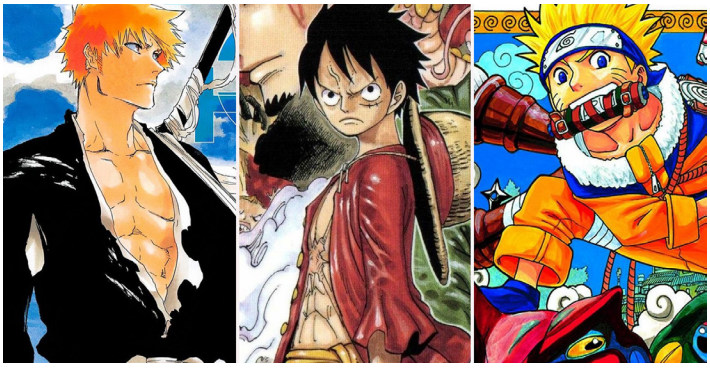
They later developed into series, which were dubbed into multiple languages and were aired worldwide, thus gaining popularity.Many people even take it up as their own profession born out of a passion for their beloved anime characters working as cosplayers or people who make cosplay items for sale. Anime is loved by all and sundry interested in it and is a great form of artistic expression. Anime even has it's own unique genres like Shonen, Seinen, Shojo, Mecha genre which is a sub genre of sci-fi, etc. Genre crossing is also a staple like blending fantasy and comedy.

Featuring stunning opening and ending songs in an anime series or movie really set the mood for the story, enhance the storytelling and are an absolute delight to listen to. Most people have shed tears at the ending of Your Lie in April as the music slowly fades out. These openings and endings make us laugh, cry or start dancing along in excitement, that feeling when your excitement hits the peak and your blood gets pumping! These songs are therefore an integral part of the experience of watching anime.

Sasageyo! Sasageyo! Shinzou wo Sasageyo!
Good going, Zuice.

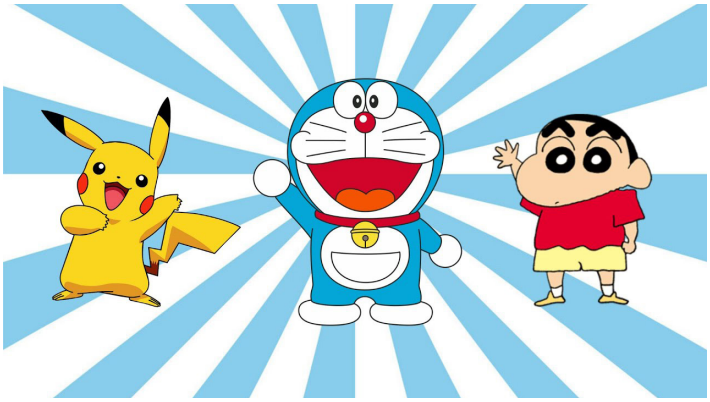


Most anime songs are J-pop or J-rock songs performed by reputed artists like May-N, LiSA and are written with the show in mind thus alluding to the theme of the show or plot but they can also be listened to by general audiences too.There are also insert songs used in specific episodes or The Big Three during important scenes to highlight the moment. These can be soft instrumentals or loud head bangers and help in plotor scene progression. There are also character songs that play only for one character. This character theme is crucial as it not only defines the traits of the characters but it is also used to focus on the characters in emotional or epic moments. Similarly, sound drops and musical crescendos are used to accurately make the viewer more in tune with the characters' feelings. Bleach fans immediately know an epic moment is upon them when Ichigo's theme song 'Number One' begins to play. BAN-KAI, comon Zuice we all know you aren't a Shinigami (Soul Reaper).



The Big Three

Anime have been a part of entertainment media for children for a long time. Most kids know of the blue robot Doraemon who helps the crybaby Nobita, the funny antics of Shin-chan, the signature 'nin-nin' of the Ninja Hattori or the different Pokemon.
Pikachuuu!!!
No, I choose you Zuice!!!!



As an art form, it greatly relies on instilling emotions with the plots, over-dramatic expressions, and dubbing. Just like every other art form, they also have a plethora of genres as mentioned earlier, each of them pertaining to the respective emotions that they are meant to make people feel. Humor is popularly used in anime, be it for humorous anime series or just as comic relief in the ones with serious context. Hence anime jokes are pretty extensive and undeniably hilarious.
Here are few funny anime jokes that I am pretty sure you will love.

What do you call a drowning Titan?
A Titanic (wonder if Eren and the others could swim XD)

Why did Naruto cross the road?
Because it was a filler episode (oh my my!!! I still haven't watched Naruto yet)

How did L die?
Diabetes (give me a break L)

What happened when Luffy found the One piece?
There was a note in it saying "Congratulations now find the other 99 pieces" (good luck bro)

What is the favourite type of nose of Saitama?
Genos

What is the favorite song of Eren family that they often groove to?
'Moves like Jaeger'

What TV series would Marco, Erin, and Jean make?
'Two and a Half Men'

Why does nobody joke about rock type or ground type Pokémon?
Well, their jokes have already reached rock bottom.

Zuice humming some anime op
Zuicely: Why don't you sing? Oh wait, I forgot you can't speak Japanese
Zuice: AS IF YOU CAN HUH!!
Zuicely: Look, I know I can't speak Japanese either. But that one phrase is coming up and I'm gonna OWN it!!!
both start singing
SASAGEYO! SASAGEYO!
SHINZOU WO SASAGEYO!

By:-
Animegh Boro
3rd Semester
Dept. of Computer Application

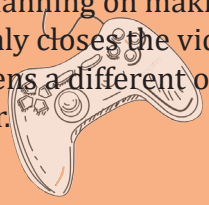
Jokes

Jokes

Jokes

Window Problem
A woman texts her husband on a cold winter's morning: "Window's frozen , wont open".
Husband text back: "Gentely pour some lukewarm water over it and gently tap edges with a hammer".
Wife texts five minutes later: "Computer really messed up now".

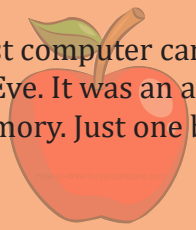
I'm planning on making an application that randomly closes the video game you are playing and opens a different one. It's going to be a game changer.



I just got fired from my job at the keyboard factory. They told me I wasn't putting in enough shifts.

I heard the man who invented Autocorrect died. May he wrist in peach

The oldest computer can be traced back to Adam and Eve. It was an apple but with extremely limited memory. Just one byte and then everything crashed.



Mysteries of the Phantom

Chapter 1: The Letter

In the middle of the boisterous and bustling metropolitan city in outer London, called Bury, lived a man named Michel Emerson. He was the chairman of the company called Emerson Private Limited. Michel was a tall, well-built, smart, optimistic person and most importantly he was a person who used his wisdom as a panacea.

One day when Michel returned to his apartment after completing his work in the office, he found an elegant looking red envelope lying on the table in his living room. He picked up the envelope and started to wonder how the envelope came there because he vividly remembered that he locked the door when he went to the office and unlocked the door when he came back home. Michel after wondering for a long time decided to put all thoughts aside and find out what was inside the mysterious envelope.

The envelope was sealed perfectly but it did not mention who the sender was. Michel again looked at the envelope, more carefully this time; at the right end of the red envelope he saw there was a small logo of the famous Phantomhive Company who was his strongest opponent in the field of business. Michel opened the red envelope and found a letter and an invitation card inside it. He started reading the letter which was calligraphically written –

"To Mr. Emerson,

You are cordially invited to the Phantom Mansion to attend the party held by the new Phantomhive heir, Mr. Neviel Phantom. It will be our honour to have you at the party this evening.

Thank you."

Folding the letter, Michel decided to attend the unexpected invitation in order to know the real motive behind inviting him to the Phantom Mansion.

What was going to happen in the Mansion and what were the mysteries of the young Phantom?

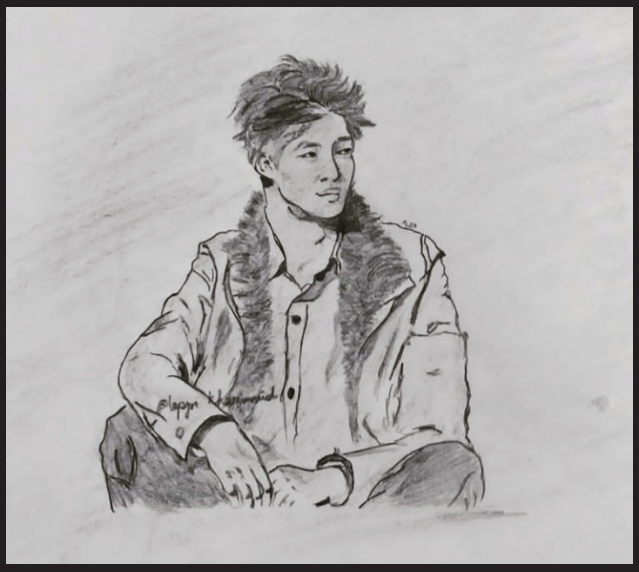
The journey to unfold the events and seeking the truth just began…..

Pushpita Chakraborty
Batch of 2022
Dept. of computer application

Painter's corner

Animegh Boro
3rd Semester
Dept. of Computer Application

Subhankar Deb Roy
3rd Semester
Dept. of Computer Application



Lapyndapbiang Kharumnuid
3rd Semester
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Deepayan Das
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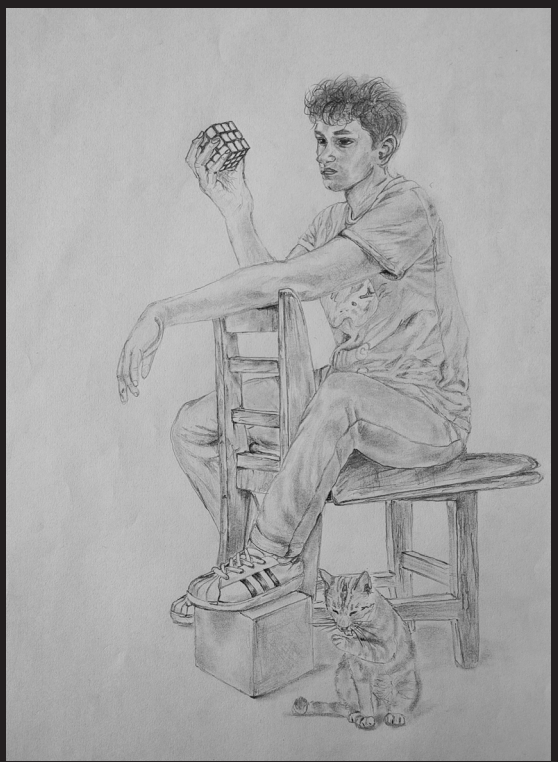
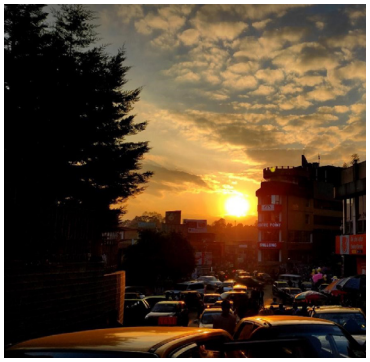
Subhankar Deb Roy
3rd Semester
Dept. of Computer Application



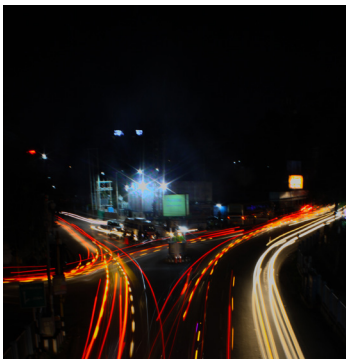
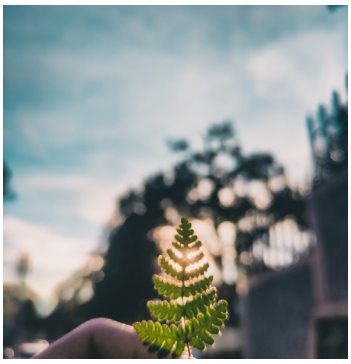
Toiarbor Mawlieh
5th Semester
Dept. of Computer Application

Lapyndapbiang Kharumnuid
3rd Semester
Dept. of Computer Application

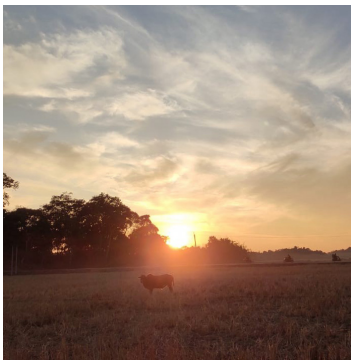
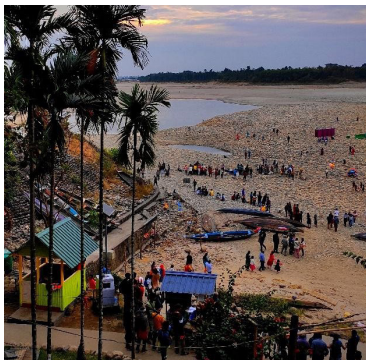




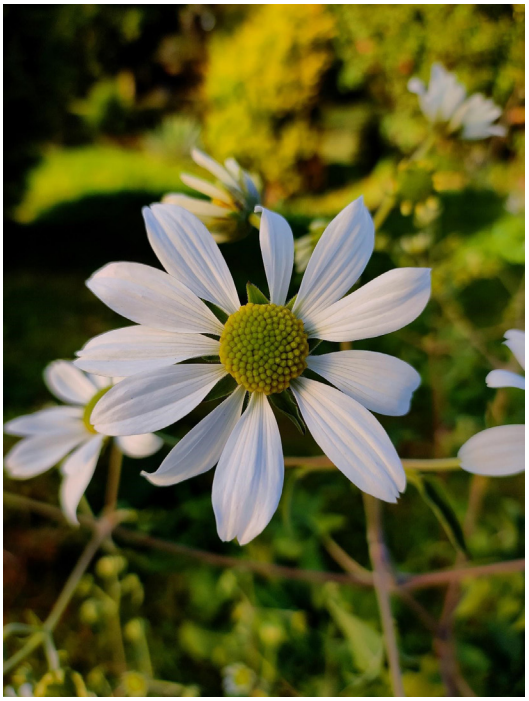

Through the Lens

It is an illusion that photos are mde with the camera... they are made with the eye, heart, and head
-Henri Cartier-Bresson


Deepayan Das

Batch of 2022



Dave Sharma

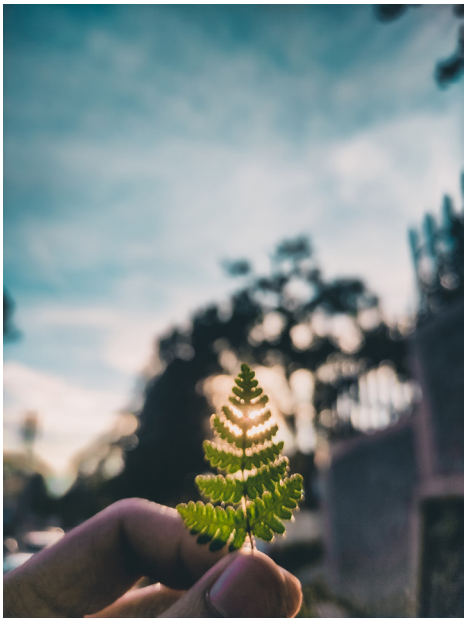
3rd Semester

Adarsh Pradhan

3rd Semester

Pravesh Burathoki

5th Semester



Deb Roy Jashraj

Batch of 2022

Tengku Marak

3rd Semester

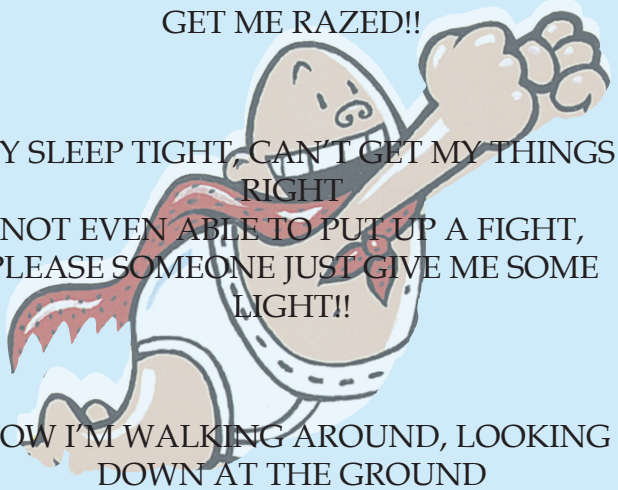
Ali Afribi Laskar

Batch of 2022

From the Poets' desk...

Expectations And Dreams

FRIENDS AND FAMILY OF FAR AND NEAR,
THEIR EXPECTATIONS WON'T LET MY THOUGHTS BE CLEAR!
GOSH! I'M DAZED! CAN'T GET RID OF THIS FAZE,
MY DREAMS SO GLAZED, BUT THEY ONLY GET ME RAZED!!



MY SLEEP TIGHT, CAN'T GET MY THINGS RIGHT
NOT EVEN ABLE TO PUT UP A FIGHT,
PLEASE SOMEONE JUST GIVE ME SOME LIGHT!!

NOW I'M WALKING AROUND, LOOKING DOWN AT THE GROUND
THINKING OF WAYS TO TURN THINGS AROUND,
I PASS BY A PARK, AND I SPOT A LARK,
CHIRPING AND FLYING OL' ROUND THE PARK!!
CRY OUT A WHINE AND STATE A LINE:
"WHY BE BOTHERED BY WHAT PEOPLE WILL SAY?
NO WORDS STRONG ENOUGH TO MAKE MY DREAMS SWAY!
PEOPLE WILL HAVE EXPECTATIONS,
BUT WILL FORGET AFTER SOME DELIBERATION!!"

BY BISHWADEEP BHATTACHARJEE
3RD SEMESTER
DEPT. OF COMPUTER APLICATION

THE NIGHT BEFORE EXAM

ON THIS NIGHT, LITTLE BOOKS BECOME NIGHTMARES WITH OPEN EYES;

SYLLABUS LOOKS LIKE A MOUNTAIN FAR TO CLIMB;

SLEEPING WITH OPEN EYES BECOMES A HABIT UNTIL THE TIME ARRIVES;

AND THEN THE CALL OF RESPONSIBILITIES!

WAKE UP, WAKE UP, GIVE IT YOUR BEST SHOT.

IT'S NOT YET TIME TO GIVE UP.

BY MD ALI AFRIBI LASKAR
BATCH OF 2022
DEPT. OF COMPUTER APPLICATION

Did you know?

HP, microsoft and apple have one very intersting thing in common— they were all started in a garage

FIDGET SPINNERS

IT SPINS AND TURNS FROM LEFT TO RIGHT

AND SOMETIMES GIVES A DAZZLING LIGHT;

IT SPINS WITH A LOT OF SOUND

THAT MAKES YOU FEEL SPELL-BOUND

WE SPIN IT FROM MORNING TO NIGHT

WE MAY TRY AS WE MIGHT

BUT WE CAN NEVER SPIN IT WITHOUT A FIGHT,

IT REALLY IS THE FUNNIEST SIGHT!

IT HAS MANY COLOURS,

AND COMES WITH MANY CHARACTERS,

LIKE BATMAN AND SUPERMAN,

OF WHON I AM SUCH A GREAT FAN.

IT HAS A FEW BALL BEARINGS,

THAT IS INDEED SMALLER THAN RINGS.

BUT WHAT ARE THESE WONDERFUL THINGS?

THEY ARE FIDGET SPINNERS AND HAPPINESS THEY BRING.

BY ROHAN DEY
5TH SEMESTER
DEPT. OF COMPUTER APPLICATION

IDENTITY

SHE BEARS UNTOLD SIDES;

REGARDLESS OF WHICH ONE STANS VIRGIN?

SHE'S KNOWN BY COUNTLESS NAMES.

HOWEVER WHICH ONE STANDS PRIME?

SHE HEARD INNUMERABLE VOICES AMIDST

HER VOICE BEING FORGOTTEN!

SHE REMINISCES AS SHE WANDERS;

INCAPABLE OF ELICITING FOLKS DISTINCTLY!

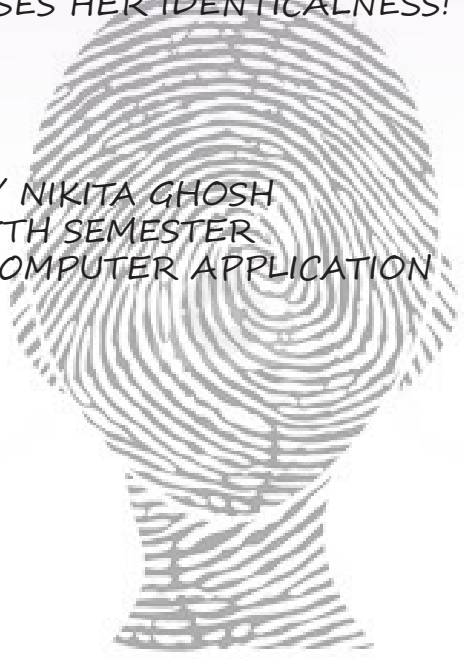
SHE'S COMPELLED TO BE INSANE

FOR OUR UNVEILED PURPOSES!

FOR SHE HOLDS "INSENSATE AGONY" IN HER HEART.

WITHAL SHE INSINUATES RIFLING;

YET SHE LOSES HER IDENTICALNESS!



BY NIKITA GHOSH
5TH SEMESTER
DEPT. OF COMPUTER APPLICATION

ME!

I see her!

See her smile hiding her gloom,

That laughter piercing her shrieks

Is she afraid of letting her guard down?

Afraid that they will think that she is weak,

In the ocean of winners trying to be one

Calming herself saying "Don't fear the warnings"

Has she lost herself in the quest for perfection?

Or has she shaped herself to a new identity.

I see her!

See her trying to find peace amidst chaos,

Beauty in filth

Her vision is what kept her looking forward

But why is she also finding herself battling the darkness,

Battling her daunting past, repulsive present

Hoping for an overwhelming future.

And I wonder why no one sees her, the way I see her?

Oh! Then I realized that "her" is "Me!"

By Sheetal chettri
5th semester
Dept. of Computer Application

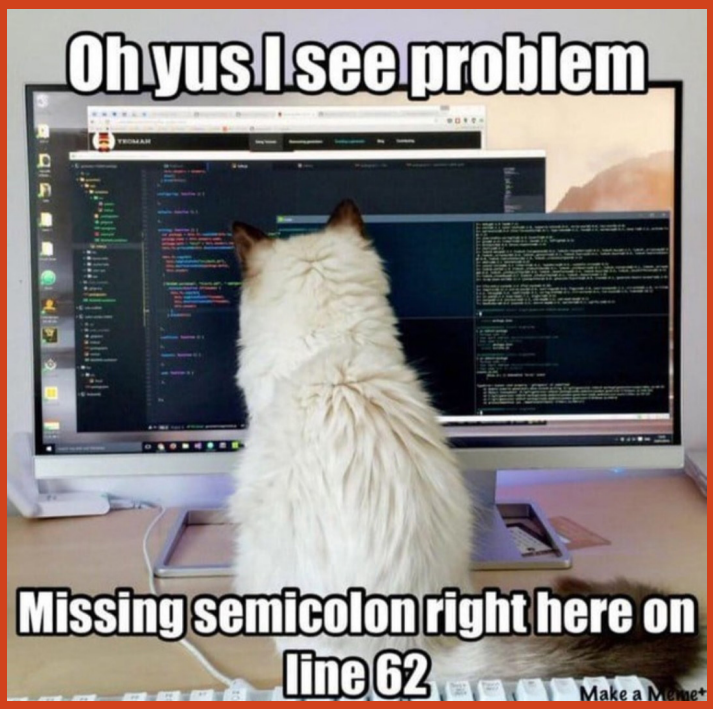
In the end

What would you feel when your time comes to an end?
At that very moment, when your life slips away?
What is the last thing that you would remember?
The faint monotonous beep of the heart monitor as it fades away?
The gentle sobbing of your loved ones gathered all around you?
Or would it be the short wheezing breaths as you lay bleeding in your upturned car?
The agonizing screams erupting from your burning body?
Or perhaps the searing hot pain as the bullet rips through your skull.
Would your last memory be of regret, for everything you haven't done?
Or of sorrow, for all that you couldn't yet do?
Would you be happy with all you've accomplished,
Or question yourself as to why you put that gun to your head?
Maybe your last memory will be of the water rushing into your mouth
As you sink into the depths of oblivion
Or maybe you'll be one of the lucky ones
And go quietly into the night.
I guess what I'm asking is,
If your time was to be up, right now
Are you who you want to be when you die?

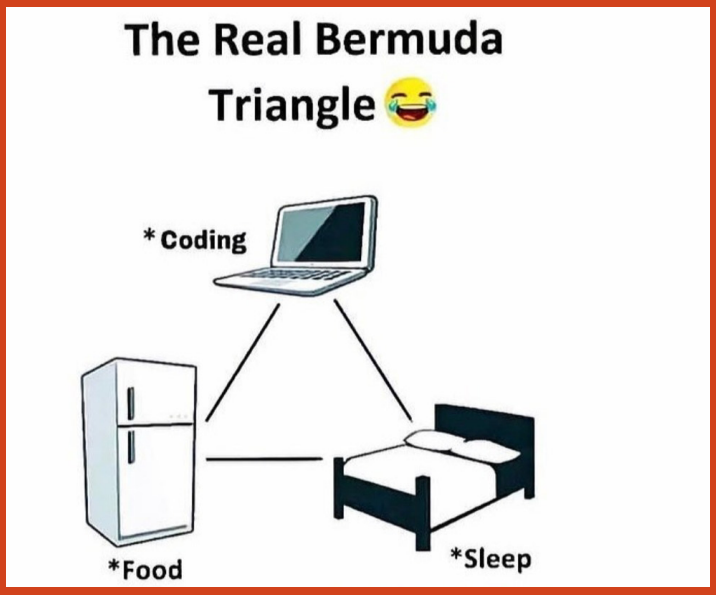
~the.bard.of.a.broken.world

By an Alumni of the department
Sreejon Nandy Mazumder
Batch of 2012-2015

Memes

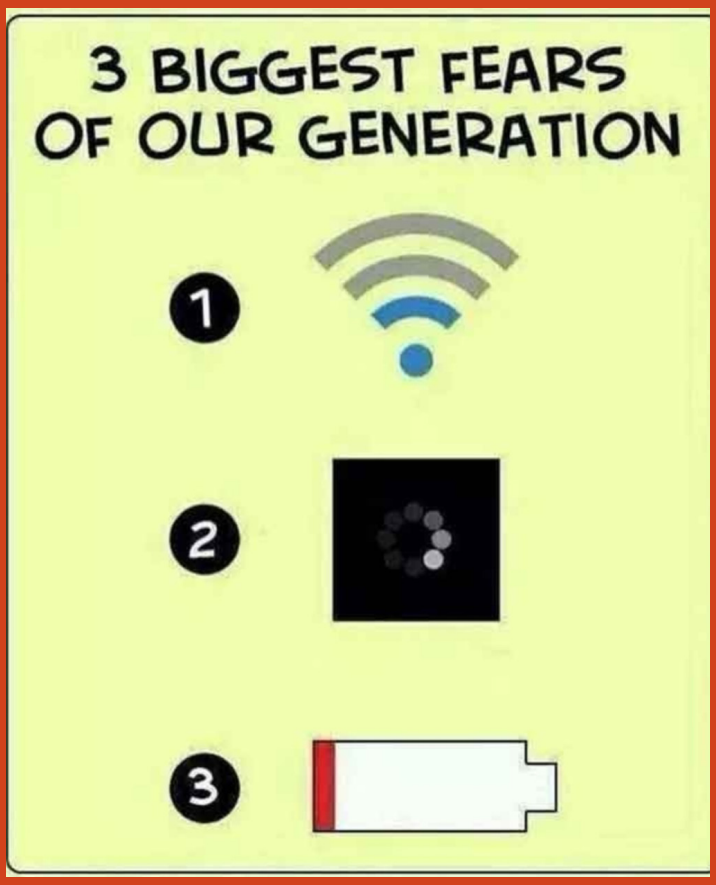

Oh yus I see problem
Missing semicolon right here on line 62
Make a Meme

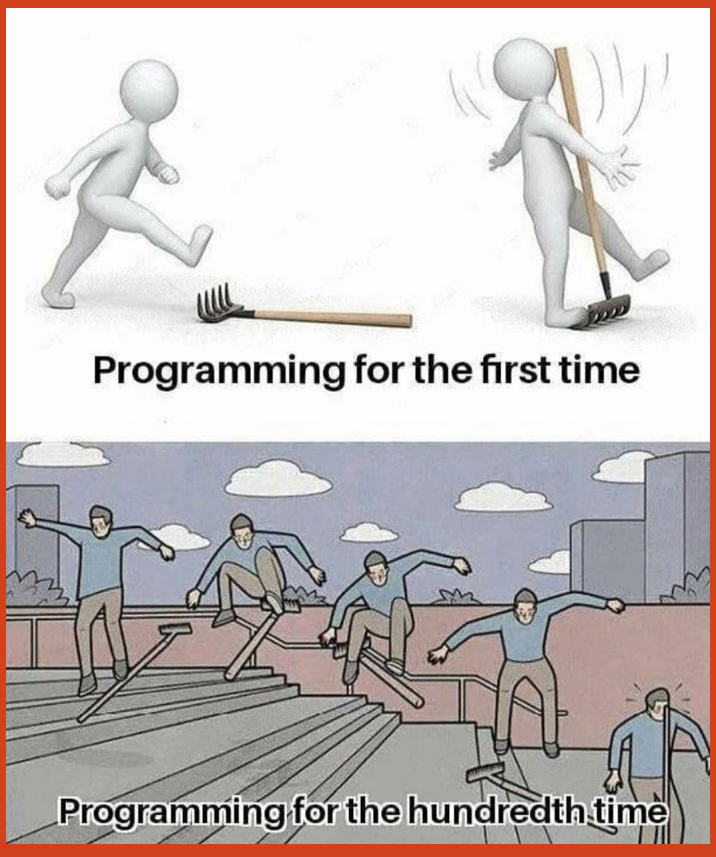

Y'all ever notice when you lose the remote you lose trust in everyone?
"Are you sitting on the remote?"
- "No"
"Stand up"


The Real Bermuda Triangle
* Coding
*Food
*Sleep


Interviewer : What is going on in your mind while you code ??
Me:
My mind is like an internet browser. 17 tabs are open, 4 of them are frozen
and I don't know where the music is coming from.

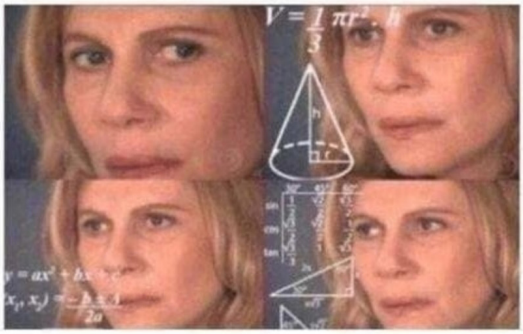

1st rule of Programming:
If it works.... don't touch it!..


3 BIGGEST FEARS
OF OUR GENERATION
1
2
3


Programming for the first time
Programming for the hundredth time


doctor: time to test your reflexes
me: *dodges little knee hammer*
The doctor:

me: *enters password*
WRONG
WRONG
WRONG
me: *resets password*
NEW PASSWORD CANNOT BE SAME AS OLD ONE
me:



My brain when I try to make it learn something that I'm not interested in:

When you accidentally click restart instead of shutdown

When you change your answer on the test and it turns out your first answer was correct


DON'T DO IT MY DUDE!
YOU HAVE SO MUCH TO LIVE FOR!
He wrote 1300 lines of code and exited without saving it


IT'S TIME TO GO
LET'S GO
? ? ?
Internet Explorer is not responding

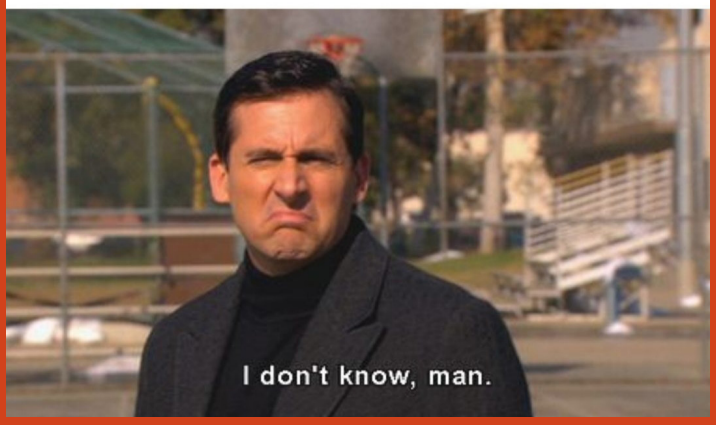

10 year old me asking why poor countries don't just print more money
My teacher who just said "there are no stupid questions"

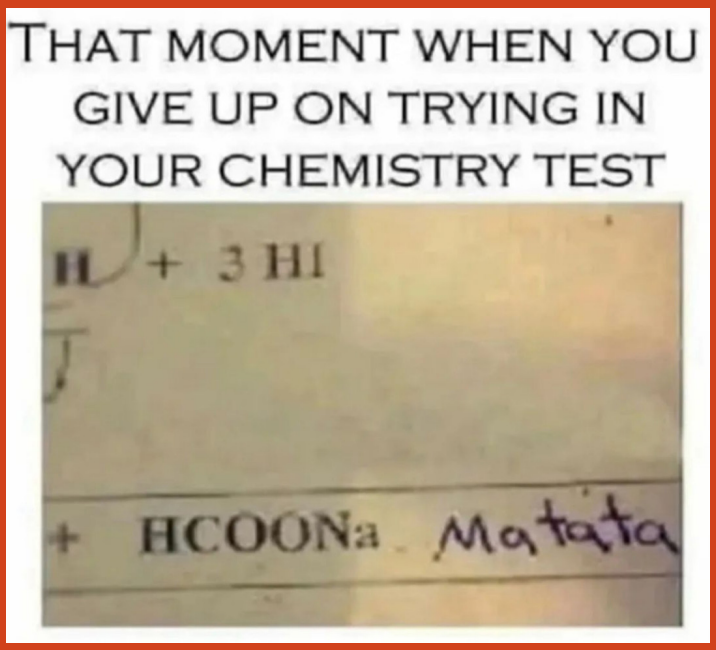

Teacher*
Tense
"one day I will write a bug free code in the first attempt."
Which tense is it?
Future Impossible Tense 😂
Me*

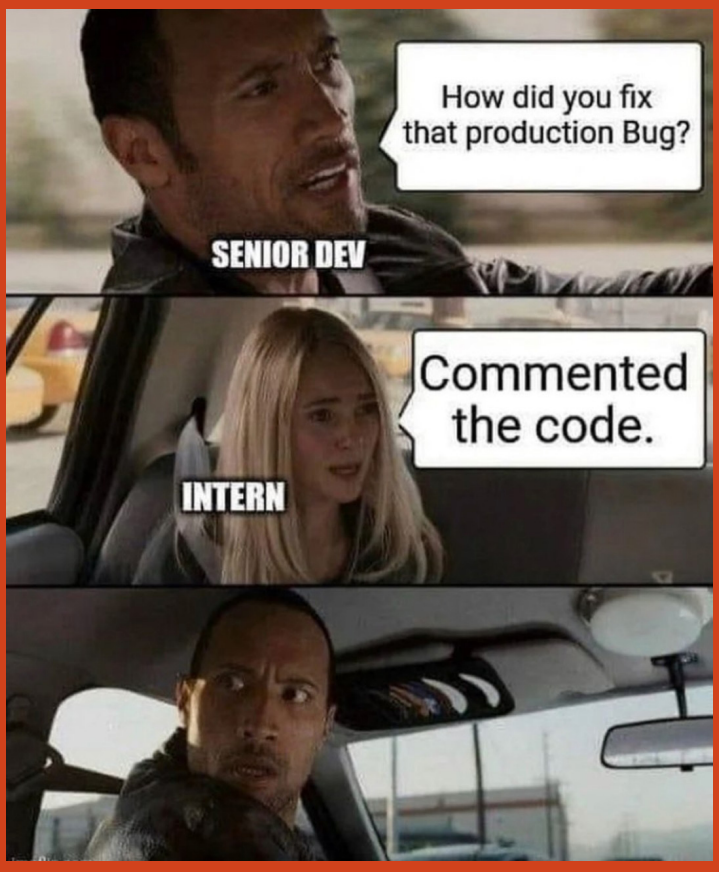
Computer: *autosaves file*

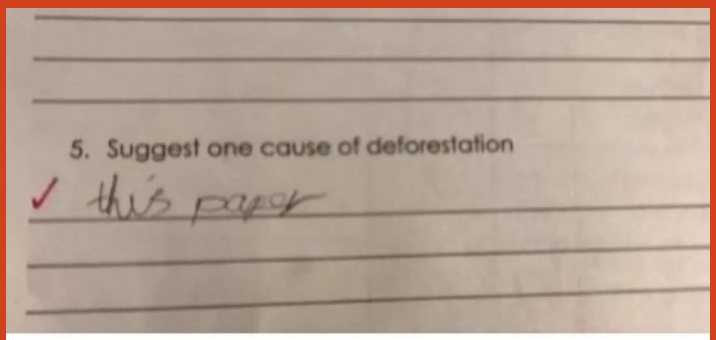
Me: Aww thanks! Where is it?

Computer:

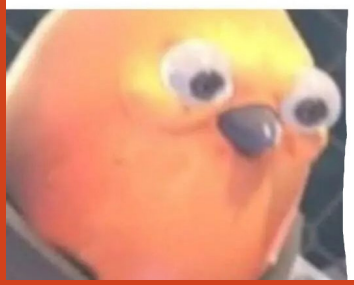








The Teacher:



You Satan !!

Mr. Edblazon 2022

Russel C Nongkhlaw from batch of 2022 participated in the Mr. Edblazon Beauty Pageant. The beauty pageant was conducted on 8th April 2022 which had a Cultural Round, Creativity Round and a Question Round. The result was revealed on the Grand Finale, 9th April where Russel was crowned as Mr. Edblazon 2022.

ACHIEV

Pushpita Chakraborty, batch of 2022, secured 1st Prize for her presentation on the theme "Wildlife Conservation" on account of Environment Day conducted by the Department of Botany, SEC on 5th June, 2021.

Md. Ali Afribi Laskar, batch of 2022 secured 2nd Prize for Sketching Competition conducted during the 2021 Science Mela - EdScientia under the theme "Reflection of COVID" on 11th December 2021.

Lewis Phawa, 5th Semester won the Sketching Competition conducted by Club Botanica, SEC on account of National Science Day, 28th February 2022.

Krishna Thakuri, 5th Semester, secured 1st place for Poster Making Competition conducted by the Department of Social Work, SEC on account of National Women's Day, 8th March 2022.

Jethro Jarvis Roy Jyrwa, 3rd Semester, secured 1st prize in the Elocution Competition conducted by the North Eastern Electric Power Corporation Limited, Shillong on the Occasion of Vigilance Awareness Week 2021, with the theme "Independent India @ 75" on 28th October, 2021.

Krishna Thakuri, 5th Semester, won the Painting Competition conducted by Club Botanica, SEC on account of National Science Day, 28th February 2022.

Rohit Barua (batch of 2022) and Bishwadeep Bhattacharjee (3rd Semester) secured 2nd Place in the Inter-Departmental Quiz conducted by the SEC Science Club on account of National Science Day, 28th February 2022.

EMENTS

Melody Queen Narzary, 3nd Semester, secured 2nd place for Poster Making Competition conducted by the Department of Social Work, SEC on account of National Women's Day, 8th March 2022.

Dakani Nongpluh and Lapyndapbiang Kharumnuid, 3nd Semester, secured 3rd Place in the YTT Western Singing Competition: Duet Category during Edblazon 2022 on 5th April 2022.

Deepyan Das, batch of 2022 won 1st prize in the Sketching Competition held during Edblazon 2022.

Vishal Dey, batch of 2022, secured 1st position in the Arm Wrestling Competition: 80+ category, held during Edblazon 2022.

Jethro Jarvis Roy Jyrwa, 3rd Semester, was awarded as the "Wtittiest Debater" of the Debate Competition during Edblazon 2022, standing against the motion "Gender Equality is a Myth in the Contemporary" on 5th April 2022.

Subhankar Deb Roy and Ronit Kumar Singh,3rd Semester along with Arnab Nath and Akashdeep Paul from Physics Department and Biotechnology Department, respectively, won the game of Antakshari conducted during Edblazon 2022 on 7th April 2022.

Yukta Limbu, batch of 2022 secured 3rd place in Two Wheel Balancing which was held during Edblazon 2022.

Adarsh Pradhan, 3rd semester, secured First Prize in Carrom Board (Singles) during Edblazon 2022.

Department Events

Webinar on "Introduction to Internet of Things (IoT) and its Applications": The Department organized an Inter-College Webinar on the topic "Introduction to Internet of Things (IoT) and its Applications", in collaboration with IQAC, St. Edmund's College, on the 29th August, 2020. The event was held to commemorate Founder's Day at St. Edmund's College, in remembrance of the Blessed Edmund Rice, the founder of the Congregation of Christian Brothers. Ms. S. Sunila Chanu and Ms. Reema Joshi were the Coordinators of the program.

Alumni Meet 2021: The event was held on 6th March 2021, to form an alumni committee to strengthen the bond between alumni and the department, which includes developing an active network of alumni. Also, it was held to create a positive relationship with the students, so that they may want to return to their alma mater.The coordinator of the event was Mr. Melvin Star Majaw, who is also an alumni of the department.

Value added course on "Web designing": A value added course was held by the department from 6th April 2021 to 10th April 2021, to introduce students to the world of web. This course introduced the students to the realm of web design. The first and necessary step for that goal was to understand how HTML works, and then proceed to more advanced and complicated structures and concepts of web design, such as CSS and layout control. There were many registrations and the result of the course was also remarkable. Ms. S.Sunila Chanu and Mr. Melvin S. Majaw were the coordinators and instructors of the program.

A second edition of the course "Web Designing using HTML and CSS - Learn how to build, design and deploy a website in real life" was held in offline mode from 11th July 2022 to 16th July 2022.

Value Added Course on "Building an Effective Resume": This course was held from 7th April 2021 to 10th April 2021. It was designed for students who wanted to build an effective resume for themselves. It covered the following topics – Define course goals: the purpose of a resume. Structure of a typical resume, Resume Formats, Qualities to stay relevant and how to showcase them in a resume and lastly creating your own resume - The Dos and Don'ts. Ms.Rajni Khyriem was the coordinator and instructor of the course.

A second edition of this course was held from 5th July 2022 to 9th July 2022 in offline mode, which covered the same topics including how to use LinkedIn - using it to prepare for an interview and the students were also acquainted with LinkedIn Learning as well. During the course a mock job interview was also conducted for each student during which they were evaluated by the course instructor and their peers as well.

Value Added Course on "Advanced Excel": The program was organised for the of the student of the 4th semester of the college from 28th June to 4th July 2022 in offline mode, to enlighten the students about the basics of Excel and many other features of Excel. Students from different departments took part in the course. This course aimed to teach Spreadsheet skills that will allow one to organize statistical data, performing statistical and mathematical calculations drawing graph, and charts . These skills provide students a critical foundation in preparation for future studies and in the workplace.Mrs. Sarmistha Deb was the coordinator and instructor of the course.

Value Added Course on "Basics of Microcontroller using Arduino": The Department conducted a value-added course on the "Basics of Microcontroller using Arduino" from 19th August 2021 to 26th August 2021 in online mode via google meet platform. The course focused on microcontroller, which is a compact

integrated circuit designed to govern a specific operation in an embedded system. A typical microcontroller includes a processor, memory and input/output (I/O) peripherals on a single chip. Microcontrollers are found in vehicles, robots, office machines, medical devices, mobile radio transceivers, vending machines and home appliances, among other devices. The course also aimed at familiarizing students with Arduino as an IDE, programming language and platform. Mr. Melvin S. Majaw was the coordinator and instructor of the course.

Value Added Course on "A Basic Introduction to Research Methodology": The Department conducted a value added course on "A Basic Introduction to Research Methodology" from 23rd August 2021 to 28th August 2021. The course aimed at introducing the students to guide students on some techniques to sharpen analytical skills, a necessity to become a successful researcher, the types of research, project-oriented research, domain specific research approaches and it also gave a gentle introduction to research methodologies and ethics in research. The students were also taught to write a short survey-oriented research paper, along with basic validation methods for hypothesis, and benchmarking with gold standards. As part of their evaluation the students also had to submit a two page research paper, after which they were awarded a graded certificate. Ms. Reema Joshi was the course coordinator and instructor of the course.

Webinar on "Staying Fit in Times of Corona-Era: An Expert's Insights": In the stressful and hectic times of the COVID-19 pandemic, the department organized a webinar to create awareness about the virus and its effects long two aspects of well-being that the virus impacted upon in the lives of people - physical and mental, and to contribute towards helping the masses live a healthy and balanced life even in the misdt of the pandemic through healthy practices and measures to prevent the onset and contain the spread of the virus, the efficacy of the vaccine, along with effective stress management techniques to better their day to day lives.

The webinar was held on 29th June 2021. The resource persons of the webinar were:

1. Dr. Abhinav Arun Sonkar, MS FACS FUICC FCRS(England) FRCS(Ireland) FRCS

(Glasgow), Professor and Head, Department of Surgery, King George's Medical University,

Lucknow, Uttar Pradesh.

2. Dr. Jasmine Mary Lyngdoh, Clinical Psychologist and Director, ROUTES (Reaching Out and

Empowering to Understanding Society), Shillong, Meghalaya.

Ms. Rajni Khyriem and Ms. Reema Joshi were the coordinators of the program.

Webinar on "Introduction to Fuzzing": The department organized a webinar on "Introduction to Fuzzing" in collaboration with IQAC, St. Edmund's College, on 9th December 2021. The event focused on security vulnerabilities in Software, which is the root cause of cyber-security threats. To find such security issues, researchers have introduced numerous techniques, of which, fuzzing is the most useful one. Fuzzing is an effective software testing method that discovers software vulnerabilities by feeding target applications with crafted generated inputs.

The resource person of the webinar was Dr Bernard Nongpoh, who is currently working as a postdoctoral researcher at the Université ParisSaclay, France. He completed his Ph. D. from the Department of Computer Science and Engineering, National Institute of Technology, Meghalaya, India. The coordinator of the program was Mr. Melvin S. Majaw.

ACHIEVEMENT

Spoken Tutorial Bright Institute Award, 2022.

St. Edmund's College, Shillong has been awarded the Spoken Tutorial Bright Institute Award at the National Level Conclave on Spoken Tutorial Teaching & Learning Best Practices - an award ceremony, 2022 by VMCC, IIT Bombay.

The College has been conducting various courses under Spoken Tutorial since 2015. The coordinators of the course is Ms. Sarmistha Deb and the co-cordinator is Ms. Rajni Khyriem, both from the Department of Computer Application (BCA). So far 42 batches have registered for over 18 different courses.

Department farewell

class of 2022

" We Didn't realise we were making memories, we just knew we were having fun"

A.A. Milne | winnie the pooh

CLASS PHOTOS

3rd Semester, BCA

First row: Izabert Nongdhar, Baphindapbiang Pathaw, Ibaladapbiang Roywan, Lapyndapbiang Kharumnuid, Marblecy Shangdiar, Youdalin Marbaniang, Miracle Rani, Kerrimeka Mawroh, Labianglin Sohlang, Phinrillamatti Khriam, Dakani Nongpluh, Bandarisabet Kharkongor, Anushka Gurung Sherpa, Alisa N.L. Nonglait, Melody Narzary, Prahelika Das, Ankita Sen, Tanuja Upadhaya
Second row: Ashish Rai, Rhys Hnamte Das, Vikash Sangma, Janak R. Chettri, Ronit K. Singh, Aditya Kumar, Sagar Thakur, Jethro J. Roy Jyrwa, Soshim Kasar, Hammyllien Lyngdoh, Ambetter N Sangma, Subhankar Deb Roy, Orestar J. Wanniang, Rohan Yadav, Animegh Boro.
Third Row: Tengku M Marak, Sahil Boro, Damewan Bareh, Deimonmi Kyndiah, Diangyooki Dhkar, Adarsh Pradhan, Sanjay Pal, Adrian M. L. Kamei, Grafenberg Langpen, Banpynbhalang Kurbah, Bishwadeep Bhattacharjee, Rajat Prasad, Deepak Rai, Lanchenba Wangjam, Arwan Swer, Josaiah M. Dkhar, Dave V. Sharma
Not in photograph: Rozzio Rozario, Arjun Basumatary, Paskal Tympuin, Ankit Bhattarai, Glaricia D. Laitthma, Amarjit Jha, Shembha M. L. Thabah, Russel Kharbhih.

5th Semester, BCA

First row (sitting):Vanlalremruatpuia , Harvester Byrsat, Abhishek Chauhan, Pravesh Burathoki, Ritik Singh, Mebanlamlynti Kharmawphlang, Dhanjit Boro, Eliezer Benjamin Ryngnga, Damang Shuwa Diengdoh, Toiarbor Mawlieh,Banphylliew Lyngdoh.
Second row:Steffy Dkhar, Deepa Daisy Kharkongor, Enonisha Lyngdoh Thabah, Jasmine Dkhar, Santi Kharlukhi, Sneha Ghosh, Jeddy Kharlukhi, Na-i Banroi Khyriem, Nikita Ghosh, Marina Singson, Sheetal Chettri, Meenakshi Barik, Krishna Thakuri.
Third row:Bryan Hynniewta, Abraham Tayung, Vaishno Chettri, Siddharth Ruchal, Sagar Paul, Adarsh Thapa, Amin Akhter Mazumder, Dipon Narzary, Gideon Zion Swer, Udit Kumar Ray, Lewis Phawa, Ngangam Haolai
Not in Photograph:Rohan Dey, Rajarshi Dhar, Balaaijinghun Warjri,Shatabdi Das.

First row (sitting): Franky Mawsor, Nahath Blah, Deepayan Das, Manish Kumar Roy, Deepanjan Ghosh, Anirban Biswas, Md Ali Afribi Laskar, Vishal Dey, Paul Mac Sohtun, Thotshang Mangkung.
Second row: Ganesh Chettri, Paramartha Bhattacharjee, Jasraj Deb Roy, S.K. Shoalib Alam, Pulak Das, Arundhati Das, Pushpita Chakraborty, Marlyne I. B. Songthiang, Russel C. Nongkhlaw, Arijit Endow, Rohit Barua, Andrew B. Kharpran.
Third row: Joydeep Mandal, Dharambir Ray, Ankit Singh Rathor, Gourav Poddar, Gaurav Deb, Siddharth Poon, Eric Chhakchhuak, P.N. Hrangaolou, Akash Moirangthem, Liba Hadu, Bishal Chettri, Rana Das
Not in Photograph: Nisha Sah, Manas Gogoi, Naribasuk Dkhar, Denestar Bareh, Yukta Limbu, Nishita Malakar, Pretty Pohlong, Aaradhaya Pandey, Kunjanmoni Saikia, Raiki B. Kharbudon.

From left to right: Prof. Reema Joshi, Prof. S. Sunila Chanu, Prof. Sarmistha Deb, Prof. Rajni Khyriem, Prof. Melvin S. Majaw

Science Mela Project
MASK DISPENSER

Mask Dispenser is a machine which is designed and made for the benefit of common man by keeping the most essential things in mind.
It was designed during the Science Mela Ed-Scientia 2021 by a group of five members namely Rohit Barua, Mebanlamlynti Kharmawphlang, Nikita Ghosh, Sheetal Chettri and Bishwadeep Bhattacharjee. As we are in the pandemic era , we now know the importance of keeping ourselves safe and healthy. COVID-19 is still not over yet so we have to take precautionary measures to protect ourselves and others. In this pandemic we all know the very most important protocol to move about is wearing our mask. Hence this machine deals with this important aspect of the current situation.
Sometimes it so happens that we forget to wear our mask and come out of our own premises and enter some other areas without our mask on, which causes danger not only to ourselves but others as well. And at times some people, intentionally or unintentionally do not wear mask and move about here and there causing havoc for others. To overcome these challenges we the students of BCA tried to design and develop a model which would help us to stop this havoc.

COMPONENTS:
Mask Dispenser has few basic components as : IR sensor to activate the servo motor to work accordingly. Ultrasonic sensor to carry out the specified task as planned or asked for by the designer. Servo motor to help the model accelerate. Jumper wires to connect the sensors to the motor and to the model. Batteries to supply electric charges to the circuit. Masks; the most important part of the model Web cam to capture the image for processing pipes to make the door frame. A laptop or desktop controlled by the designer to make it work in real time.

WORKING:
This machine works or can be used for practical usage in those public premises where the crowd comes often . This machine can be kept in a fixed place . When any one would try to walk through that door frame the ultrasonic sensor would sense the face of the person which then will be captured by the webcam and processed .Once the processing is over it will give out a sound for a confirmation that whether the person has worn a mask or not . If the person is wearing a mask then he/ she is good to proceed on his way. However if the person is not wearing a mask then the machine would open it's flap and give away a mask to a person and would let them proceed. Furthermore if at times someone forgot to wear a mask then they could just put their hand in the sensor and the flap will open to give away a mask .Vehemently this machine helps us to maintain the protocol of wearing mask in public places and it is also feasible and can be managed at a very affordable budget.

Members of the Group:
Rohit Barua, Batch of 2022
Nikita Ghosh, 5th semester
Sheetal Chettri, 5th semester
Mebanlamlynti Kharmawphlang, 5th semester
Bishwadeep Bhattacharjee, 3rd semester

Tournament

STUDENT COORDINATOR: Mebanlamlynti Kharmawphlang

TEACHERS IN CHARGE: Prof Rajni Khryiem, Prof Melvin Star Majaw

DATE OF EVENT : 19/03/2022

ORGANIZERS : Nikita Ghosh, Manas Gogoi, Jethro Jarvis Roy Jyrwa, Sheetal Chettri

Number of Participants : 90

Number of Participating Teams: 16

Duration: 9 am – 5 pm

The MLBB TOURNAMENT was held on the 19th March of 2022. This event was the very first event organized by the newest formed club of the college House Of Geeks. It was a gaming tournament, where students from different departments came to play with their own teams. As House of Geeks is a technology-centered club we wanted to promote the new culture of E-sports via this event.

The event was a successful one as a result of the cooperation of all the participants, the coordinators, the organizers and the other members who have helped us.

The winners of MLBB TOURNAMENT ARE:-

1) Marthanial Tariang

2) Kenny

3) Meiyijungba

4)Toshi

5) Salem

The Runner's up are:-

1) Akash Moirangthem

2) Ringdao Jigdung

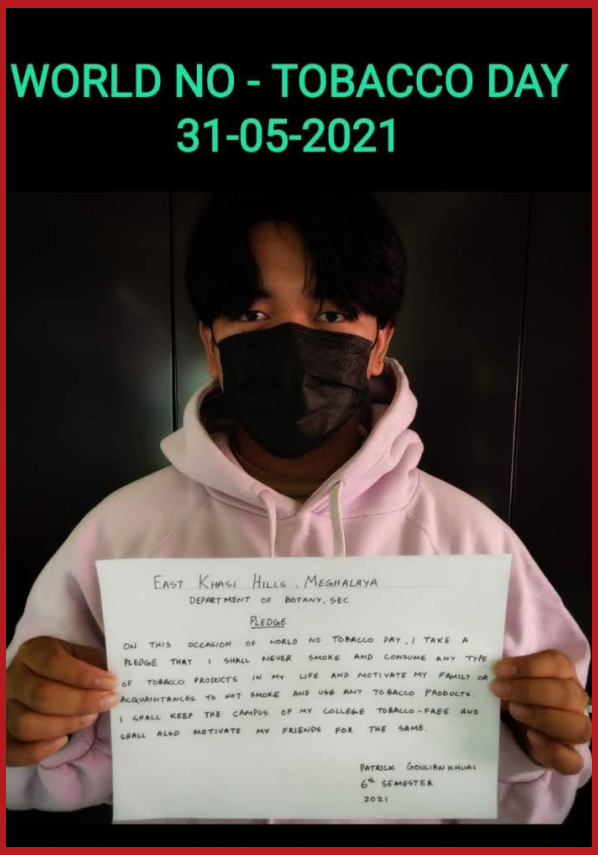
3) Ryan Sangma

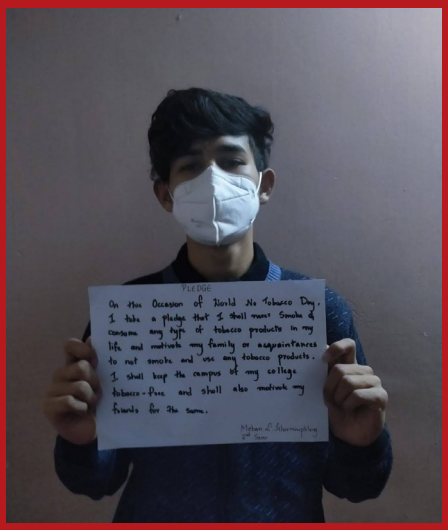
4) Poanwang Panka

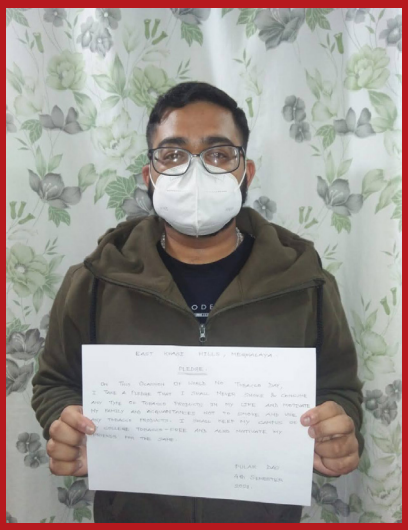
5) Lijar Ngulomv

The winners were awarded with Certificates and Mementoes.

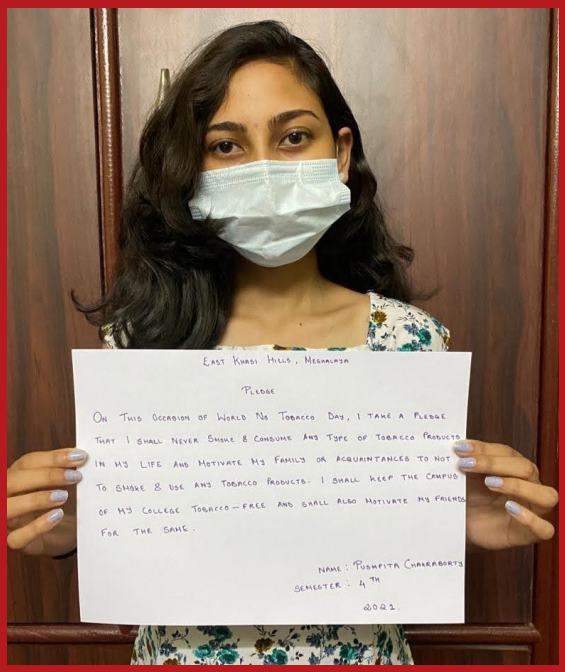
World No Tobacco Day

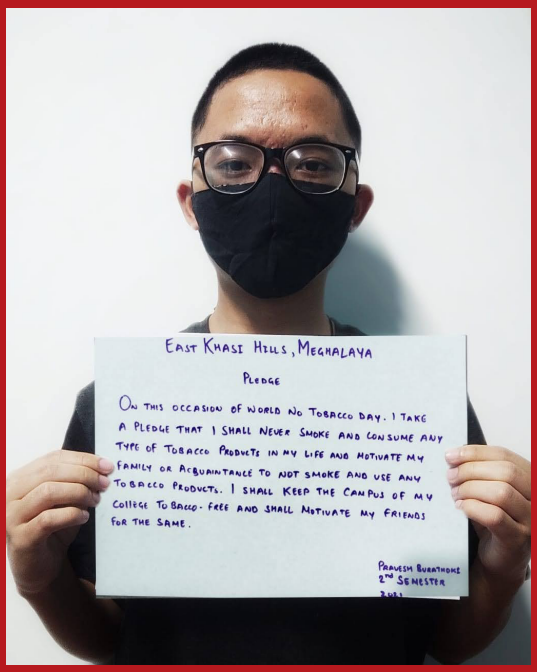






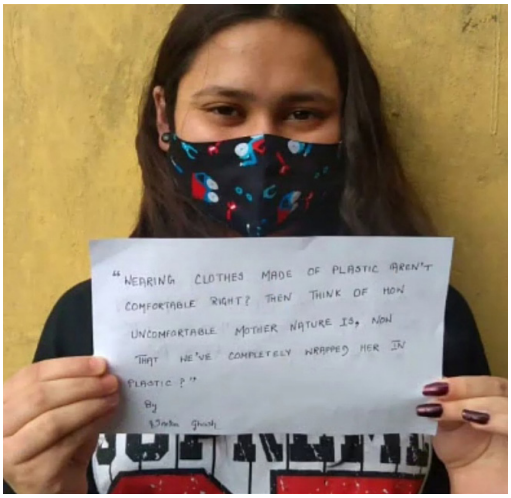
The students of the department participated in the celebration of World No Tobacco Day in which the students had to write and take a pledge to quit tobacco. They had to write the pledge on paper and take a photo with it which was incorporated into a video as part of the event.





World No Plastic Bag Day

The students of the Department participated in the celebration of No Plastic Day 2021 in which they all wrote slogans and then the selected ones were asked to be drawn and the students had to click a picture with it. There was also a brief story of how plastic is affecting the environment which was followed by the pictures of the students all incorporated into a video.



UNIVERSITY RANK HOLDERS BCA

Rank holders in 2013

3rd Position – Nabanita Goswami (80%)
5th Position – Prabal Sen (79.35%)
6th Position – I Ibanylla Mary Thabah (78.38%)
9th Position – Victor Myrthong (71%)
9th Position – Supriya Das (71%)
10th Position – Rumun Sinha (70.13%)

Rank holders in 2014

2nd Position – Sushant Adhikari (79%)
3rd Position – Rewath Kafley (78.50%)
4th Position – Rupayan Dasgupta (73.38%)
6th Position – Anita Kumari Giri (70.88%)
8th Position – Zinnia Acharya (70.38%)
9th Position – Sonil Masi (69.63%)
10th Position – A Aisha Siddiqa Laskar (69.38%)

Rank holders in 2015

2nd Position – Kyrshanlang R Dkhar (83.38%)
3rd Position – Abinash Rajkumar (81.38%)
4th Position – Jordan R Kharkrang (80.38%)
4th Position – Lucy M Kurbah (80.38)
5th Position – Melvin Star Majaw (79.38 %)
7th Position – Shongdor N Mawroh (75.25 %)
7th Position – Ginalford Marwein (75.25%)
10th Position – Ajay Thakuri (73.88%)

Rank holders in 2016

2nd Position – Vivek Singh (85.50%)
3rd Position – Reuel Kdmund Kharshiing (84.13%)
4th Position – Kynsaihunlang Iangrai (79.75%)
5th Position – Rachel Koulou Therieh (78.25%)
8th Position – Imran Choudhury (76.38%)
10th Position – Allan Joe Ryngksai (74.25%)

Rank holders in 2017

3rd Position – BanlumlangWar (84.25%)
5th Position – Poulomi Deb (81.75%)
6th Position – Sunita Rawat (77.63%)
7th Position – Iainehborlang Mawlein Nongsiej (77.25%)
9th Position – Goodleaderson Lyngdoh Mawlot (74.38%)

Rank holders in 2018

3rd Position - Abhijeet Das
9th Position – Pynshngain Diengdoh

Rank holders in 2019

1st Position – Abhishek Bista (90.11%)
2nd Position – Muskan Kariwala (89.67%)
3rd Position – Pooja Kumari Kushwaha (86.78%)
5th Position – Manisha Kumari (84.44%)
7th Position – Deimiwan Dylan Ryngksai (79.33%)
9th Position – Mark Gilbert Thabah (78%)

Rank holders in 2020

Merit List not released due to COVID-19 induced lockdown

Highest Marks Position Holder in 2021

Ajanta Choudhury
(Only highest marks holders in each subject was released due to COVID-19 induced lockdown)

Rank holders in 2022

1st Position - Manas Pratim Gogoi (92.55%)
2nd Position - Pushpita Chakraborty (91.44%)
3rd Position - Rohit Barua (89.77%)
5th Position - Siddharth Poon (84.33%)
7th Position - Akash Moirangthem (83.77%)
8th Position - Nishita Malakar (83.55%)
10th Position - SK Shoaib Alam (81.66%)

Internship program


Government of Meghalaya
Office of the Deputy Commissioner
East Khasi Hills District
Shillong

CERTIFICATE OF INTERNSHIP

awarded to

Meenakshi Barik

For completing your three month internship in data entry and analysis at the Office of the Deputy Commissioner, East Khasi Hills District

Christian N Warjri
Data Analyst

Golden M Khongsit
District Data Manager

Isawanda Laloo
Deputy Commissioner

Meenakshi Barik and Nikita Ghosh from 5th semester of the department participated in the Government District Covid Management Unit internship. The internship, according to the students, was very fruitful. It dealt with the collection of information of all the COVID-19 patients, their status, if they were quarantined, ill, under treatment, and so on. The internship was for 3 months and during its course, students had to make calls on the patients and update their record through excel spreadsheets on the National Portal. The students made use and improved their communication skills and presence of mind. In conclusion, it contributed to the aptitude skills of the students.

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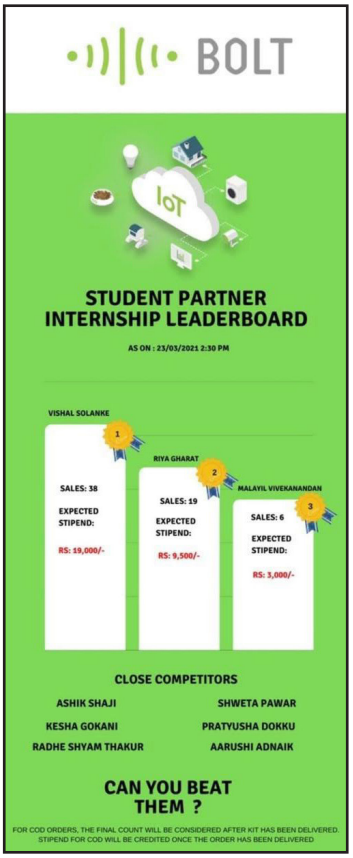
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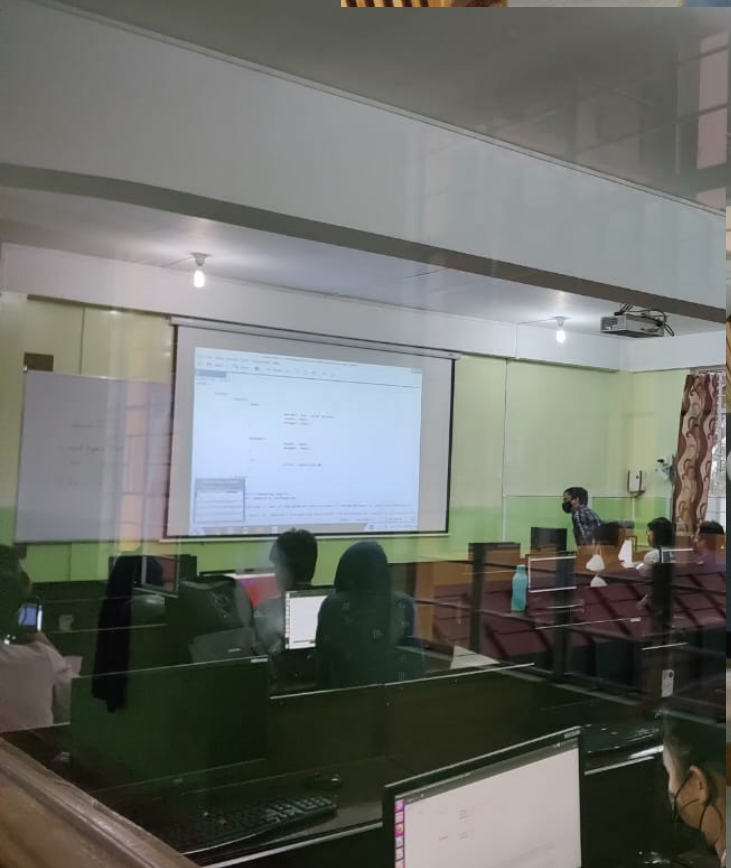

Covers designed by Toiarbor Mawlieh

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