



**EXPLORE!!**  
Innovative  
solutions  
by  
Vibrant  
minds

# CACHE

presented by



**WHAT SO BIG  
ABOUT  
PROGRAMMING  
LANGUAGES???**

**BITS AND BYTES'21**

Exciting and  
Fun events for the  
Freshers of IST

**INNOVATIVE  
CULTURE SHIFT:  
OTT Style**

**HACK-O-FISTA'21**

6k worth prizes  
Coming soon  
Stay Tuned...



**"Learn,  
Unlearn,  
Relearn"**



**STATISTICS  
ON CURRENT  
PLACEMENT  
DRIVE**

## Acknowledgements

Our sincere thanks to the honorable Head of the Department Dr.Saswati Mukherjee for her continuous motivation for students.

Many thanks to the respected President Of Information Science and Technology Association(ISTA) Dr.S.Swamynathan and beloved Treasurer of ISTA Dr.N.Thangaraj for encouraging us to start with this initiative for the welfare of department of IST.

We thank Dr.S.Bama for reviewing the contents and giving suggestions.

We also thank students for putting their absolute best with respect to the context of the magazine.

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## VISION OF THE DEPARTMENT

To educate students with conceptual knowledge and technical skills in the field of Information Technology with moral and ethical values to achieve excellence in an academic, industry and research centric environment.

## MISSION OF THE DEPARTMENT

1. To inculcate in students a firm foundation in theory and practice of IT skills coupled with the thought process for disruptive innovation and research methodologies, to keep pace with emerging technologies.
2. To provide a conducive environment for all academic, administrative, and interdisciplinary research activities using state-of-the-art technologies.
3. To stimulate the growth of graduates and doctorates, who will enter the workforce as productive IT engineers, researchers, and entrepreneurs with necessary soft skills, and continue higher professional education with competence in the global market.
4. To enable seamless collaboration with the IT industry and Government for consultancy and sponsored research.
5. To cater to cross-cultural, multinational, and demographic diversity of students.
6. To educate the students on the social, ethical, and moral values needed to make significant contributions to society.



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## ISTA - With a new TONE

ISTA is a student run, department managed society of DIST which is solely responsible for conducting I++ and ITrix every year. It has always enjoyed a respectable status amongst the students and was set up with the objective to organize various activities that contributes to the academic and professional development of students along with leadership qualities, teamwork and other essential employability skills. Some of this years intiatives are,

-> CACHE is our new initiative to represent and uphold the IT department as a whole among CEG's various other departments.

-> From Second edition onwards, we will be publishing our magazines in our website. Creation of the webpage is in process and will be completed soon.

-> We have already started Internship and Placement training groups to train our students to perform well in the Campus placements and Internship drives.

-> We also started planning for I++ events and are in the process of procuring internships. Events team and IR team is working closely to get things done for I++.

-> ISTA with the help of DIST is planing to head some internships available within the department.

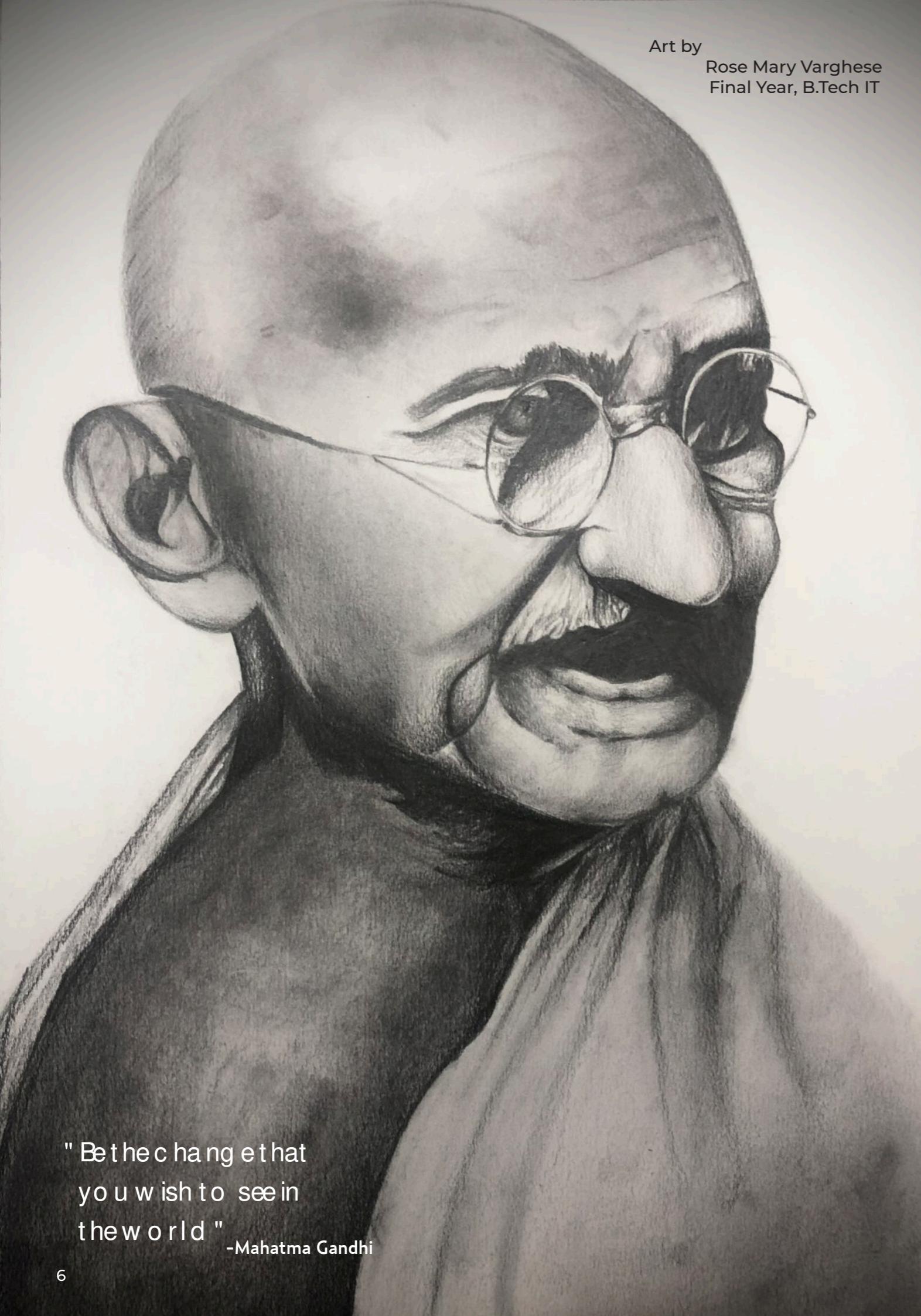
-> We also plan to keep an Intra-college Hackathon for 2nd and 3rd years.

ISTA has started a LinkedIn page, ISTA CEG. We also have an Instagram page, ista\_ceg. We expect your wholehearted support and will continue to strive hard for the betterment of the Students of our department.

-Adhis H  
Chairman, ISTA

Art by

Rose Mary Varghese  
Final Year, B.Tech IT



"Be the change that you wish to see in the world"

-Mahatma Gandhi

## ABOUT CACHE

‘Cache’ is the magazine created by the Information Science & Technology Association to engage with the IST Department in a creative and collaborative manner. This was initiated with the mindset of providing prodigious opportunities to all the students in the college who have an open interest for Information Technology.

From interviews with respected faculty and articles on various achievements of students, to creative enigmatic puzzles, games, memes and contests, Cache has it all. The overall aim is to provide an enriching monthly experience which truly sets apart our department by showcasing the abundant talent present amongst our students and to provide a social space to highlight various achievements, goals and ambitions.

Cache will also include in depth conversations about trends in technologies, career paths and opportunities and plans to expand with involvement from an eclectic mixture of businesses and companies which would provide much valued insight to the students who really need it.

So, enjoy our premiere magazine Cache, The December Edition. Hopefully our gazette truly captures your attention, your affection and your involvement.

-Kevin Paul,  
Final Year, B.Tech IT

## Bits and Bytes '21



It was the beginning of November and a fresh set of juniors just entered the college with bright smile and humongous hopes. Even with a lot of questions on their mind, their eagerness overcame their anxiety. Their course began with schedule of 10 days induction program. It consists of a day-long extracurricular activities. Starting with morning yoga sessions alternate with morning walk, their day went on with lot of activities like photography, art works, dances, defense classes, etc., and ends with evening sports activity. At the time when they were exhausted with their daily routine, there came the seniors hoping them to have fun with department related activity "Bits and Bytes".

The department activities scheduled on **5th and 6th of November** noon. It had various fun events planned by seniors of DIST to break the ice and to make sure every senior is with them. The event began with the welcome speech of Assistant professor **Dr. Selvi Ravindran** after which the fun part kick started. First the students were divided into 3 groups and were sent to various venues to follow SOP. The groups were in turn split into 5 teams. Some events were individual but most of it were team events.

Each day had couple of events planned. Day 1 of Bits and Bytes 2021 kick-started with an introduction to senior volunteers followed by events such as Action



Dr.Selvi Ravindran



Passing, Connections, Link the list and concluded with the event Jigsaw puzzles. Day 2 of Bits and Bytes 2021 started off with Find my balloon event at the Ada Lovelace auditorium where all the IT orange tags interacted with each other to find the balloon with their name on it. The find my balloon event was followed by Decipher and the event Story Making concluded the 2 day department activities for induction 2021.

Each event was engaged and enjoyed by them with great enthusiasm. As the time goes on, everyone including the staffs and event organizers were excited seeing their active involvement. The whole event went down smoothly. Thanks to their active interest in participation, the event was very much successful.

These events made them to engage much better with each other and with volunteers as well. Cache feels very much delighted to appreciate the **volunteers** who planned these wonderful events. We sincerely wish the first years to have a fabulous college life and seize every opportunity that comes with it.

-Adhis H  
Final Year, B.Tech IT

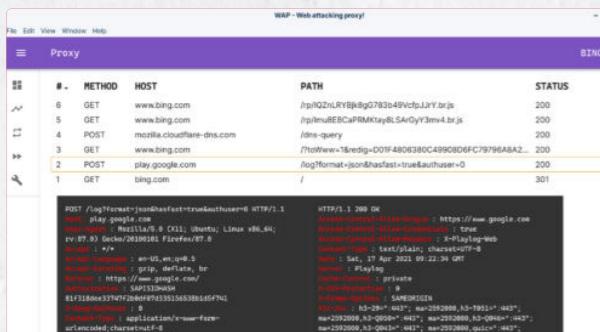
*"The Best way to predict your future is to create it."*

- Abraham Lincoln



## Project Works

### WAP - Web Attacking Proxy



A web application interception proxy for security audits written in Node JS and React JS. It can serve as a Swiss army knife for bug bounty hunters and penetration testers by providing all the tools they use within a single application. It is in the form of a desktop application. It consists of Proxy, Resender. The system has two other innovative modules here in the form of passive scanner and Intermediate API. Passive scanner automatically detects vulnerabilities by looking at the requests and responses by matching against a set of rules, while intermediate API enables the user to integrate any other command line tool into WAP, and see the results right inside the application.

This project got selected for Technology Innovation Project'21



**Harinarayanan K S**



**Harsha Vardhan H R**



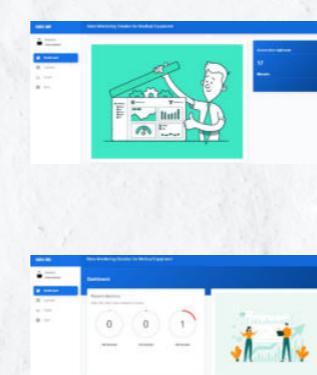
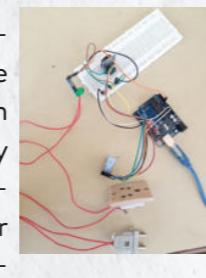
**Ragavendhra Ramanan M R**



### Self Monitoring System for Medical Equipments (SMS-ME)

Our project SMS-ME aims at providing an easy way to monitor the medical equipment in every room of a hospital and send those data to the server, store it in the database for further understanding. This is achieved with the help of IoT (Internet of Things) which uses hardware devices to make work simple. This project has two such IoT devices, the Hub and the Spoke. The project consists of a web application for data visualization. The received data from the hub is stored in the database. The project allows the hospital management to monitor the status of the spoke with the help of a mobile application.

The mobile application also allows the doctors to enter the patient details which in-turn is stored securely and safely using the block-chain technology. Considering the near future, the IoT and the block-chain technologies can bring a major change in the field of hospital and medicine. This makes our project much more valuable.



This project got selected for Technology Innovation Project'21



**Eashwar P**



**Praghadeesh S**



**Sanjayram R**



### Induction 2019 Attendance Monitoring System

Utilized to track induction schedule and monitor attendance of apx. 1000 students over a 2-week period. Attendance is recorded by roll call and scanning QR code printed in ID card. The attendance total is saved to database and tracking entries updated by user id, timestamp. Students are grouped according to schedule under supervision of an admin user. At last a pdf with attendance details is generated at the end of each day for permanent record.



**Dhrisha G**



Day Schedule  
Click scheduled item to view attendance count details

Detailed schedule with total, present, absentees count

Click detailed schedule item to view absentees list : can be filtered

Share absentees list

Update Attendance of students

### CHAMP - CEG Hostel Attendance for Mess Planning

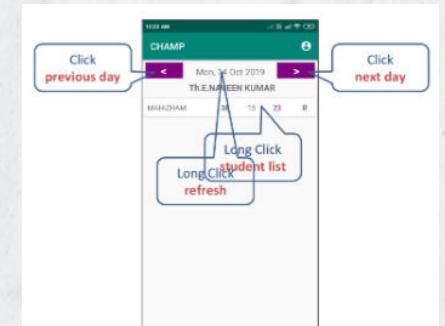
Utilized by 36 Hostel Admin to record and monitor attendance of 4,289 students belonging to one of the 26 hostels & 8 messes.

#### App Features :

- Authenticates RC Login to the System.
- Displays the hostel assigned to RC on a day.
- Displays list of students accommodated in the hostel.
- Displays attendance status of any particular day.
- Allows Attendance Recording by Roll Call/Scanning QR code printed in Id card.
- Saves attendance totals to database.
- Totals are used for mess meal planning (based on Hostel-Mess Mapping for each student).

Thereby monitoring the attendance in hostels, food wastage is considerably reduced.

Security features: privately circulated APK, RC is device-tied for attendance update(using device IMEI ID)

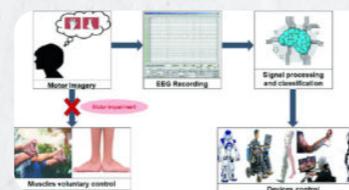


## Learner's Buddy-EEG based Learning Application

Right to education is the birth right of every child. To ensure a hassle free and independent learning experience for children with motor disabilities, we developed an EEG (Electroencephalogram) based desktop application that enabled them to navigate through digital textbooks with facial expressions (smile-to turn right, frown-to turn left). A signal processing module facilitated textbook navigation by the thought of "left" or "right". A dataset of motor imagery EEG signals, was preprocessed, subjected to feature extraction and logistic regression based classification. Accordingly, pages were turned left/right using selenium. We also developed a prototype that detects confusion from pre-recorded EEG signals obtained from kaggle and crawled relevant resources from the web if confusion was detected.

This project got selected in TIP'21

Brain-Computer Interfaces(BCI) acquires and analyses brain signals to provide a non-muscular channel for sending commands to machines.

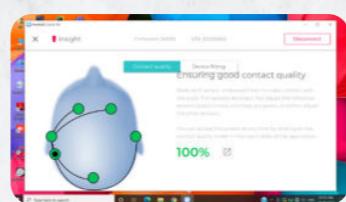


### Textbook Page Navigation module:

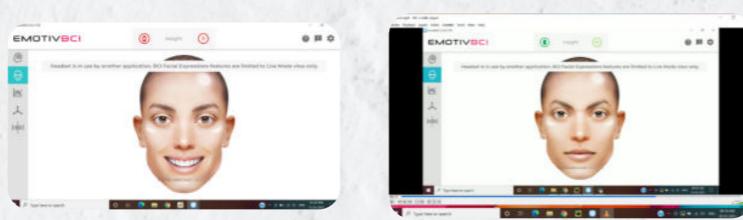
Landing page



Contact quality of the emotiv insight EEG headset when child wears it



The headset determines if a person was smiling or frowning by detecting presence of characteristic muscle signals

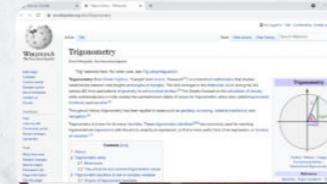
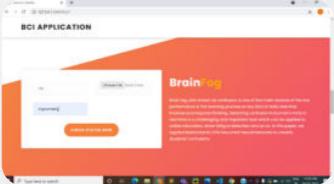


Then using it



### Brain fog detector Module:

Web application to detect if child was confused from brain signals collected during the time of learning, which would be given as input in CSV or xslv format and the topic he was learning is also required as input



Kousalya S

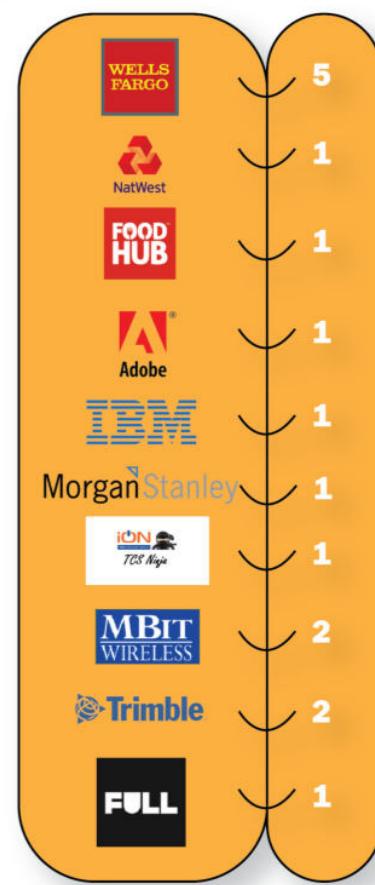


Naveena M



Sri Akshya S

## Current Placement Statistics



Total Number of students placed: 78

## Achievements

It was yet another sluggish Friday afternoon and instead of having a peaceful nap after an appetizing meal, we brown tags were trying so hard to code a dull C program (yeah, because after Python, C is just traumatizing) and documenting it. But little did we know that our restless genius friend Aaditya A was out there trying to make our lives a little easier by coding a Python program that would document the codes and outputs for us! It took only 2 hours for him to finish the first draft and after each round of trial and error, he kept updating it and presented a usable program to us on 3rd of October. He wanted to help his friends struggling with the time of insert-

ing the code and its output screenshot for PDS or any CS related assignments. One can use this program to consolidate the code and output screenshots into a word doc. It doesn't require any hard installation, just Python Idle and a Python-docx module which he has explained how to install in the readme file of his github repository.

Here's a link to the repo: [https://github.com/Aadityaprabu002/Code\\_n\\_Ouput\\_to\\_docx](https://github.com/Aadityaprabu002/Code_n_Ouput_to_docx)

It works well for both Mac OS and Windows. It is advised that you read the instructions given in the readme file, before using it. There is a step by step process descrip-

tion available in the Github repository with pictures. He has also added a recent feature which asks for and takes input of the code in a scripted form or a picture form. Do give it a try and let us know if you found it useful or if you have any suggestions to make it better!

-Nisha Pa  
Second Year, B.Tech IT



# Tech'Sposure

# An Introduction to Extended Reality

XR or Extended Reality is an umbrella term that includes a range of technologies like Virtual Reality (VR), Augmented Reality (AR) and so on. Virtual Reality or VR is replacing the whole reality around the user using a computer generated virtual environment such that there is no more real world view and only the virtual view for the user. In VR the reality is a synthetic computer generated world. Example of VR is a user entering a virtual house where the whole environment is computer generated. On the other hand, Augmented Reality or AR is enhancing the real world by overlaying virtual objects and visual elements over the real world and giving the user a composite view of both the virtual world and the real world i.e., by making it look like the virtual objects and real objects are a part of the same world. In AR the reality is the real world. Example of AR is a user overlaying a 3D model of a Table on the floor of their own house (Real world).

Human Computer Interaction plays a huge role in these technologies by ensuring immersion in AR. Immersion is the perception of being in a different world and is very important for AR and VR. Users in AR and VR can interact with the environment using Hand gestures, Head and Body movement input, Speech, controller input and so on.

## AR or VR?

It really comes down to the 4 classes mentioned above when choosing between AR or VR for your project. AR is ideal for projects that need real world components like GPS for navigation, scaling a room or placing virtual furniture etc. VR is ideal for projects that require the user to be inside a whole new environment like training by simulating flying for pilots, surgeries for doctors and so on.

## Key Concepts to learn for AR:

Marker based and Marker-less AR, Scale of AR( Table Top, Room or World), SLAM, LIDAR, Field of View(FOV), Ground Plane Detection, Object Recognition, Tracking and Registration of Objects.

## Key Concepts to learn for VR:

Presence Illusions, Immersion, Haptics, Boundary and Redirected Walking, Embodiment and Avatars, Proprioception and motion sickness.

-Nauvyashree A  
Final Year, B.Tech IT

# Emerging Languages

The most important skill to learn in today's world is to know how to write a computer program. Today, computers have entered in almost every industry. The programming and developer communities are emerging at a rate faster than ever before. Various new programming languages are coming up that are suited for different categories of developers as well as for different use cases (web application, mobile applications, game development, distributed system, etc). Let's have a look at the most prominent programming languages that are currently in use today.

more secure. It is ideal for building SPAs (single-page applications). It is very fast as it is compiled to machine code.

R programming language is one of the most commonly used language for Machine Learning. R provides an excellent framework and built-in libraries to develop powerful Machine Learning algorithms. R has the ability to run seamlessly on various operating systems. R is mainly used for general statistical computing as well as graphics.

**Dart** is an open-source, general-purpose, object-oriented programming language with C-style syntax. The purpose of Dart programming is to create a frontend user interfaces for the web and mobile apps. Dart provides the language and runtimes that power Flutter apps, but Dart also supports many core developer tasks like formatting, analysing, and testing code.

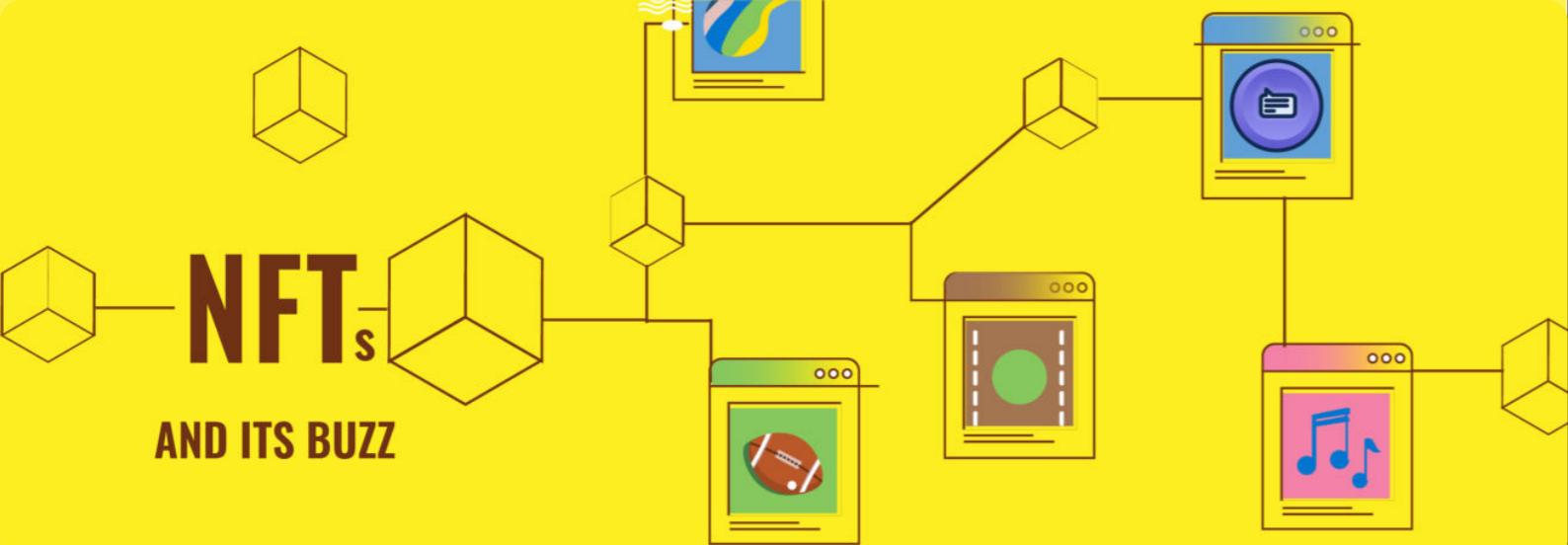
There are several thousand programming languages in the world. There is no one best programming language. Every language has its own advantages and disadvantages. Choose Java for its versatility, JavaScript for its front-end functionalities, swift for developing iOS applications and so on. Based on the requirements and specifications, the programming language that is best suited for the purpose should be chosen.

**Go**, also known as Golang, is a programming language built by Google. Go provides excellent support for multithreading, so, it is being used by a lot of companies that rely heavily on distributed systems. Being a statically-typed language makes it easier to work with large codebases.

-Hrithik K

Final Year B.Tech IT





## NFTs AND ITS BUZZ

The recent buzz has been going around for a few months with the onset of the 'crypto' breakthrough and the 'blockchain revolution' take over. The revolution sparked when the value of Bitcoin soared from \$5000 to \$50,000 for the first time, almost becoming 10x within just a few months, turning eyes to see what makes it so valuable and also the technology that lies behind it.

Essentially people did not identify the importance of this technology adequately enough until the monetary value of 'crypto' rose exponentially! This surge in new eyes and reputation led to creating an entirely new product that has taken over in terms of 'Return On Investment (ROI)'! A classification of the ROI is the amount of money you make from any investment. Assuming you have invested Rs.100 on stocks, and now after a profit, you have Rs.200, you are said to have made an ROI of 100%!

What is an NFT? A classification of an NFT would be the name of the 'Non-Fungible Token.' To a layperson, this implies an image that comes under the category of an NFT cannot be reproduced or copied. This is because every NFT is issued with a unique 'hash ID' and cannot be embedded onto the image by an external entity!

This exact idea of having a unique 'ID' associated with every 'Token' is what makes NFT's different and more wanted. Imagine every 'hashID' to be similar to the fingerprints of humans, and no two humans can have the same fingerprints. Similarly, no two NFT's can have the same 'hashID.'

This provides to be beneficial to creators in the artspace as they now needn't apply for expensive copyrights from third-party companies. This marketplace also opens up paths to people who make music by allowing the artists to directly sell their content to the customers without a middleman such as Spotify, Apple Music, etc.

The NFT marketplace is potentially the hottest place to be on right now and take complete advantage of; you never know the new potential use cases this market would come up with! Here's a quote from Kevin Kelly that explains the importance of technology in our lives today "Humans are the reproductive organs of Technology."

-Vikram Balaji  
Final year, B.Tech IT



One are the days when we used to come home from school, sit in front of the TV and wait for our favorite shows to air. Now with a simple tap of the finger one can choose and watch a movie/series from thousands of selections. This has become possible only due to the existence of online streaming services and Netflix is one of the more popular ones. Netflix was founded by programmers Reed Hastings and Marc Randolph in 1997. Hastings initially invested 2.5 million dollars on Netflix. It is interesting to know that at first Netflix functioned as a movie rental service. Users would choose and order a movie from their website which would later be sent to them through mail once the transaction was complete. In 2000 Netflix launched a movie recommendation system that would give customers personalized movie suggestions. But despite being a well-used service, Netflix was still struggling. They were ready to sell 49% of their stake to blockbuster which was the most popular rental service back then. But blockbuster denied. In 2002 Netflix made an initial offering in Nasdaq which ended up being a huge success. By 2007 Netflix stopped renting out DVDs and had transitioned into the Netflix that we are aware of today. By then Netflix had be-

come a threat to blockbuster and in a few years, Blockbuster went out of business.

So how does Netflix do it? How does it onboard new content and stream at immense speeds to so many people at once? Netflix stores content in different formats and at multiple resolutions. They break the original video into shots which they later collate together to form different scenes and pass it through the processor to produce clips at distinct resolutions and formats and stores it on Amazon S3 which is an object storage service. The content delivery network (CDN) uses redundant servers in multiple locations to provide specialized services to people from different geographical regions. This reduces server load and ensures that there is backup in case of an outage. The most interesting part of Netflix is that they went one step further and worked with ISPs to establish their own hardware called Open Connect Appliances which have their own IP address. This reduces latency and helps improve overall user experience. For logging in, cataloging, billing, searching, recommendations, and computing, Netflix uses Amazon Web Services (AWS) which is a cloud platform. One may ask, why does Amazon let Netflix use

their servers even though they are business competitors? This is because Amazon makes a hefty sum of money from Netflix, and they do not want to push certain customers away because of a business rivalry.

Another widely accepted feature of Netflix is the commercial free streaming experience. This is both possible and feasible only because Netflix does not rely on adds to support and source its revenue. Then how does Netflix make ends meet? Netflix's major source of revenue is customers subscription fee. Netflix has over 200 million paid subscribers worldwide who pay \$8 - \$18 (Rs 200 - Rs 800) every month. To attract new customers and keep the existing subscribers hooked, Netflix came up with the clever strategy of producing their own exclusive content. House of Cards, Stranger Things, Money Heist, Squid Game are some popular original Netflix content that took the internet by storm.

So, in a nutshell, hard work, perseverance, embracing change, taking chances, innovation and clever business strategies brought Netflix to where it is today.

-Jovina Virgin,  
Second Year, B.Tech IT

## Puzzle Time

**What's a Capture-The-Flag competition?**

CTF competitions for cybersecurity enthusiasts and aspiring hackers often have similar game mechanics.

In a CTF game, you and several other hackers will be given a piece of software, a web application, a virtual machine, or a virtualized network as your target. Your objective is to find all of the hidden flags before your

opponents find them.

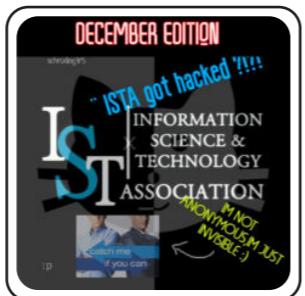
**What's OSINT?**

Open source intelligence (OSINT) is a methodology for collecting, analyzing and making decisions about data accessible in publicly available sources to be used in an intelligence context.

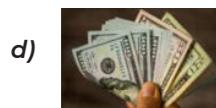
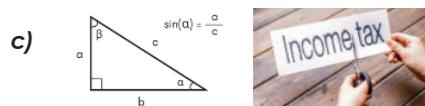
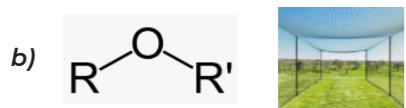
- Scan the QR code and login to take part in an intriguing Capture The Flag competition.



(<https://tryhackme.com/room/istaosintchallenge>)



- There are four different cages, all of different sizes. There are 9 finches. How do you put the finches inside the cages so that all are occupied? No finches should be out of the cage and each cage should have an odd number of finches in it.
- Technology often demands the exigencies of the connection of your thought process to come up with creative and effective solutions. Presenting to you the game of Connexions where you'll have connect the given pictures and decipher the terms related to technology.



f)



## Interview with Harini Kothandan

Harini Kothandan, a 3rd year IT student from Anna University, has coached throwball ever since completing her 12th grade. She used to coach her school's junior team, but this year she took up coaching the Chennai girls team and the Chennai boys team. Through her coaching and guidance, both teams won the '19th Junior State Throwball Championship'.

Cache had the wonderful opportunity to ask her a few questions about her time as a coach.

**As a coach, what's the first thing you do when you meet a team you're about to coach for the very first time?**

I'll introduce myself and get to know each team member. I'll get them to play, and I'll observe their skills and abilities. And according to their skills, I'll train them.

**What was your most triumphant moment as a coach?**

For the past four years, the Thiruvalluvar team has won the state-level junior category. We were able to defeat them this year finally. I feel like this was my most triumphant achievement as a coach. Today we play the final match against Delhi in the National Level Championship.

**How did you feel when you and your team won the state-level championship?**

The feelings I felt cannot

be described in words. It was the best moment in my life.

**After winning the state-level championship, how did you and your team celebrate?**

We celebrated and cheered ourselves.

**What adversities have you faced as a coach? How do you deal with them?**

Sometimes, the match results have already been fixed by the officials. During those situations, I faced difficulties protesting against the officials who favored the opponent team.

**How do you coach an athlete who is struggling to improve?**

I'll observe them and find out their weaknesses and strength. I'll then coach them according to their abilities and help them correct their mistakes by looking into them.

**After a loss, how do you keep players motivated and the team's morale high?**

Usually, I talk to them about the mistakes they have

Cache would like to take this opportunity to tell you that Harini and her team had won 2nd place in the National Level Championship.



made, and then I'll teach them to rectify those mistakes. I'll ask them to look forward to their next match.

**You're an IT student and a coach; how do you manage your time between the both?**

I wake up early, I'll focus on studies when I study, and I'll focus on the game when I play or coach.

Interviewed by  
Isha A.K. Nanda,  
Third Year, B.Tech IT





## Cricket World Cup 2021

The Cricket World Cup 2021 was nothing less than a sensation. Australia emerged as the champions after a long strife period from the Sandpaper Gate at South Africa to the World Cup.

The World Cup started out with many teams being termed as Favourites by Pundits across the world. Pakistan came out of syllabus as they battled their way valiantly through to the Semi Finals. They won all their games, but lost their way in the Semi Finals as the brave kangaroos routed Pakistan and channeled their way into the Finals.

India had a forgettable campaign, as they lost their first two matches, and any number of calculations did not help them till the end. Indian fans were reduced to hoping that Afghanistan beats New Zealand at a point of time, paving way for a low morale and a group stage exit.

It was a year of Yellow as the IPL saw the veteran-led Chennai Super Kings lift the trophy and the Aussies make the Trophy theirs, not to forget Tamilnadu defeating Karnataka to win the Syed Mushtaq Ali Trophy. It was a forgettable campaign for a lot of teams including the likes of West Indies and Sri Lanka. South

Africa gave a surprising fight back and were in the list for a long time, before the Run rate raced up and drowned the Proteas' dreams.

This World Cup was very important for India in many ways. To start it was Virat Kohli's last outing as Captain and Ravi Shastri's last run as coach. It was a young Indian side out for blood and they could not have asked for a better mentor. Unfortunately the burden of the bubble was inevitable. The players were burnt out after series after series, and the IPL. They were tired mentally, physically and socially. All of these played a factor as India exited the group stage unceremoniously.

A spark of hope for the 2022 World Cup shines as the Rahul Dravid - Rohit Sharma era has had a golden start. They would definitely look to up the ante and hold the momentum to clinch the next World Cup



-Sushrut Vinayak K  
Final Year, B.Tech IT

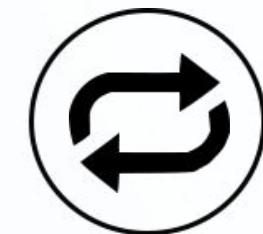


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# Hack-O-Fista'21

An intra-college hackathon



Cash prizes worth **6K**

COMING SOON

STAY TUNED..



# மீண்டும் கல்லூரிக்கு போகலாம்..!!

விடிந்தது!!

மீண்டும் 8.30 மணி வகுப்பு

ஆயிரம் இருந்தாலும் ஒது சற்று கடனம் தான்..!!

Id-கார்டு உடன் மாஸ்கயும் எடுத்தாச்சு..!!

வந்துவிட்டோம் Alumni Steps-யும் Green bench-யும் நிரப்பு..!!

வெறித்து தவித்து நின்றவர்களுக்கு விருந்தளித்தது

கோட்டுர்புர சாலை..!!

CEG கேண்டன் எங்க?

அது தற்பொழுது ACT கேண்டன் - ஆம்..!!

இரவு நேர திரைப்படம், அதற்கு முன் செல்லும் நடைப்பயணம்..!!

பெசன்ட் நகர் கடற்கரை..!!

Anna-wifi யில் பாடுபட்டு எழுதிய Placement Test...!!

திக்கித் திணறிய Project Review..!!

அடடே 43 நாட்கள் ஆகிவிட்டதா..?

நிஜங்கள் நினைவுகளாய் மாறும் நாட்கள் வெகு தூரமில்லை..!!

பேசாமல் இங்கயே இருந்துவிடலாம் என்று தோன்றியது

அனுமதி மறுக்கிறார் ஹாஸ்டல் வார்டன்..!!

-Monika V  
Final Year, B.Tech IT

## FRIENDS

The last time we saw one another,  
March, that beautiful spring.  
My mind still fixates on those memories.  
Even now, in the month of October.

We met each other in the virtual world,  
We shared laughs online,  
We kept each other happy and optimistic,  
While our syllabus caused our heads to swirl.

We gathered together in front of the sea,  
Our brief stay together was coming to a close.  
So, we planned a trip to the Besant Nagar beach,  
Staring at the horizon, we never felt so free.

The long, dark tunnel finally ends,  
I can see a ray of sunshine.  
I know we'll meet in November but,  
I can't wait to meet my friends.

-Rohan Sridhar  
Second Year, B.Tech IT



# Closure

The ending of a significant phase in our life can be difficult and more often painful. The "significance" of a phase cannot be defined by time, but by emotional investment we put into it. More often than not, such an ending is abrupt and out of the blue, where we can just watch it crumble and burn, we watch it die. Such a death not only mean loss of life, but can also mean the end of a relationship. The reaction we have to such a loss is grief.

Grief rather than a singular reaction is a myriad of emotions-confusions, anger, sadness, emptiness, but all grieving has the same end goal, to obtain closure. It is said that there are 5 stages of grief: denial, anger, bargaining, depression and acceptance.

Denial is a phase where we are so overwhelmed by the loss, that we tune out of reality and lie to ourselves that nothing has changed, except it has. Then when we slowly tune back in, all the love and care that we shared channels out as a different emotion - anger.

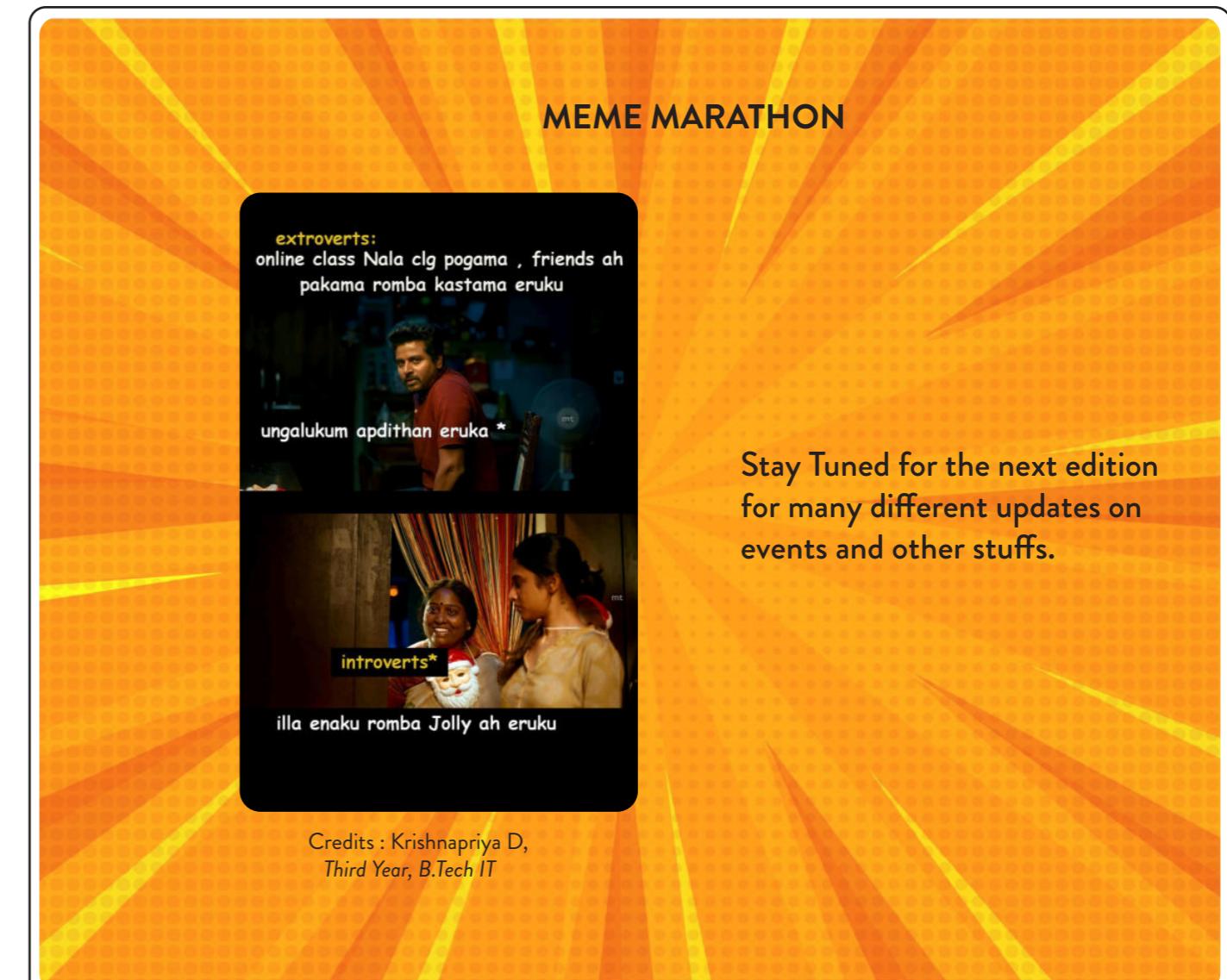
Anger is the phase where we ask questions that could never be answered and such silence only adds fuel to the fire. Anger is such a strong emotion; it is the first to come out once you hit reality. But there can only be so much rage. Soon we feel the impending wave of sadness about to hit us, so to survive we start to bargain. We make deals, to be back with that person, where we are prepared to put our whole life at stake for such a reunion. We feel helpless and vulnerable, and slowly we realize that the wave is inevitable.

-Preethi Raju  
Final Year, B.Tech IT

Depression is the phase where we realize there is no going back and things get real. The wave hits us with such strength, that we are scarred for the rest of our life. The emotional tornadoes begin to subside and all we feel now is emptiness. We pull ourselves away from making real connections and isolate ourselves since we are not in the emotional state to handle another loss. We start to think of all the memories you had made with them, good or bad. This is when the little things they did start to seem huge and the pain only grows. We start to regret the moments we let ego eat away at the little time we had and wish for more. This is the longest phase of grief and the most painful one.

We finally reach a place, a place of peace, the hardest destination to find. Some people take months and for some years. How we reach this place is such a mesmerising thing, it is never the same for anyone, it can range from a simple "sorry" to a message from beyond. It is the point where realization that the other person is in a better place floods us. We start to forgive them and bid farewell to all you had shared with them, from all the what-ifs to the plans you had made together.

Eventually, we learn to let go and smile back at the old polaroids rather than cry, think of all the good memories we had made and the happiness they gave us, and knowing there will be happiness after them. We finally attain closure.

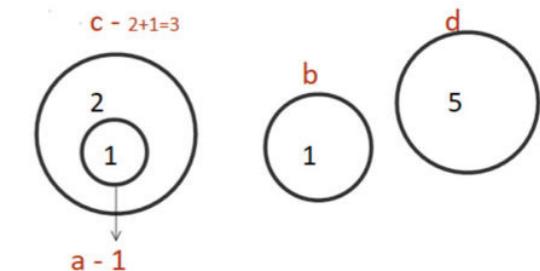


Stay Tuned for the next edition  
for many different updates on  
events and other stuffs.

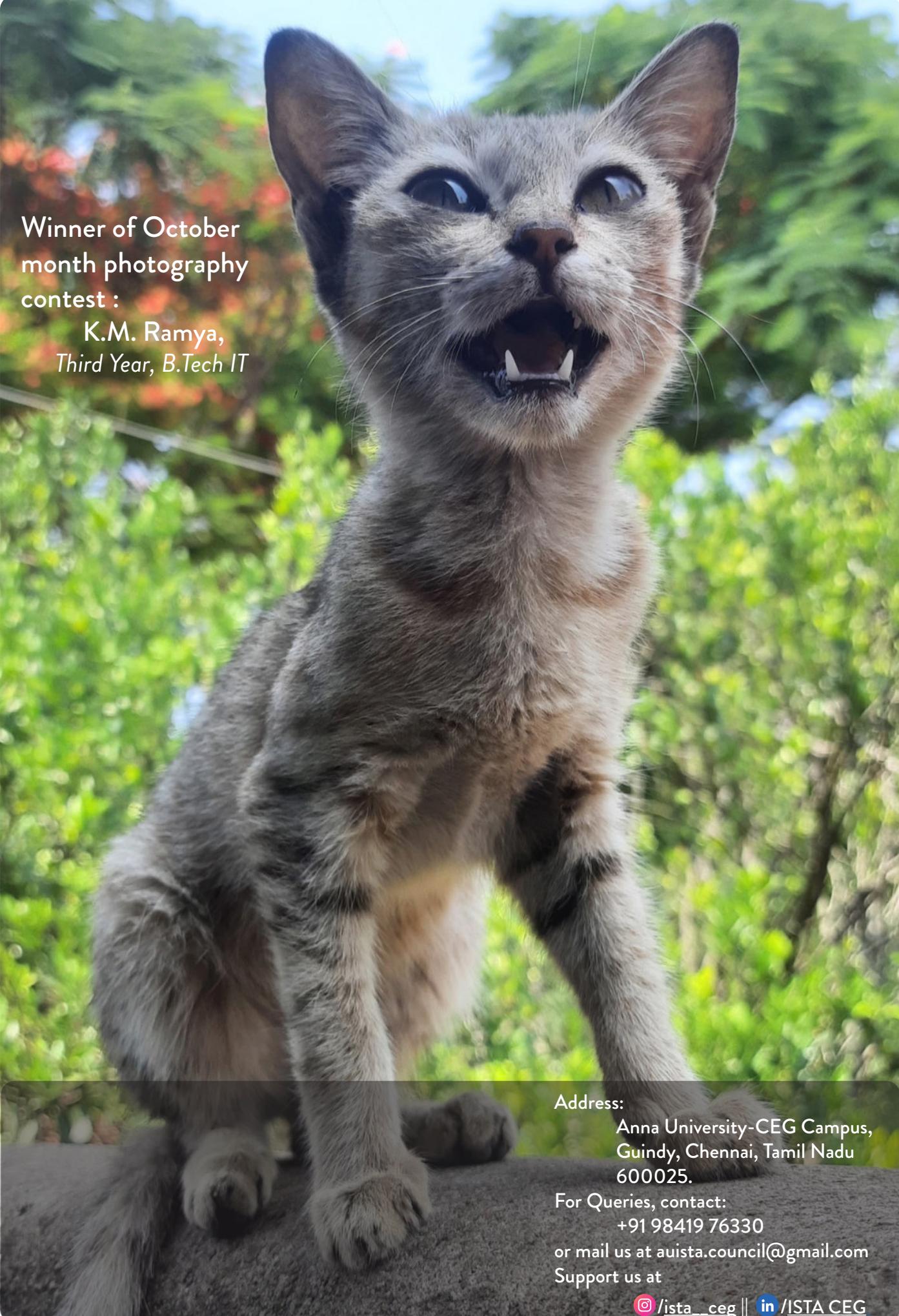
## Answers for the puzzles (page 18)

2. There are four cages of different sizes say-a, b,c,d  
By putting one smaller size cage[a] into one bigger size cage[c]  
here put '1' finch inside cage [a] (a is odd)  
within the cage [c] (not inside cage a) put '2' finches  
so the total number inside the cage [c] is 3' (c is odd)  
remaining 8 finches are separated into 1+5 in cage[b] and cage[d] respectively.

Different solutions can be possible..



3. a)Control panel  
b)Ethernet  
c)Syntax  
d)Cache  
e)Domain  
f)Modem  
g)Argument  
h)Matrix  
i)Internet Protocol  
j)Stdio



**Winner of October  
month photography  
contest :**

**K.M. Ramya,**  
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