

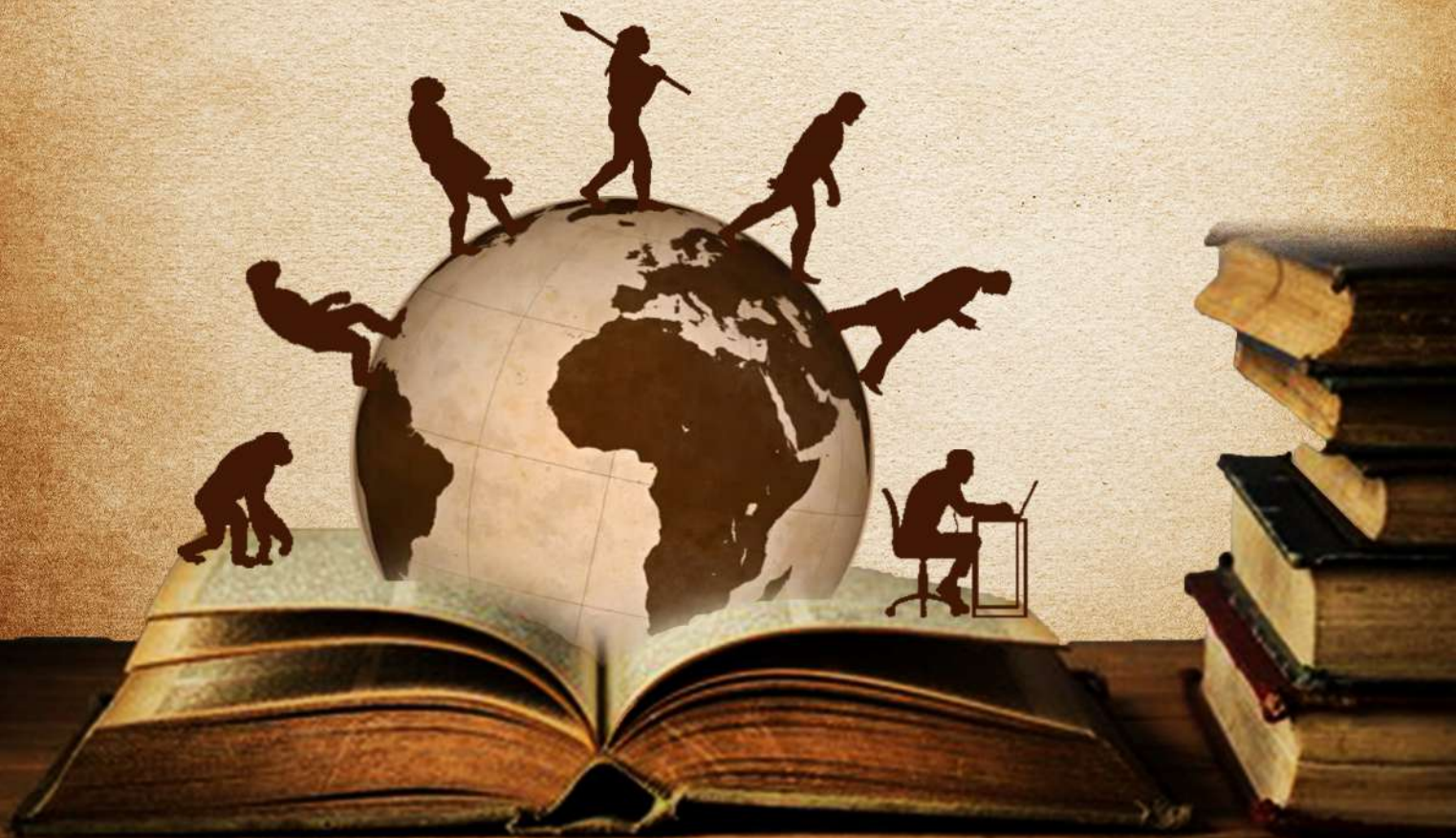
APRIL

# GEM

GRIET e Magazine

*Story of the*

# EARTH







# EDIT SPEAK

*The* Month of April celebrates many things. Among all of them is one day which celebrates the forgotten with pride. The habitat of the Homo Sapien and many, many others, the Earth. Mother Earth as Humans like to call her. The Planet Earth has been around for a long time, what seems like an eternal for us humans, 4.5 Billion years old, a billion has 9 zero's if taken by European standards 12 zero's. It's gone from having no life to life everywhere. From the dusty, volcanic waste lands to the forests, oceans and grasslands.

The Earth has been widely discussed by philosophers for centuries. It has been flat, then spherical and now is an ellipsoid also known as oblate spheroid. The Earth is now in the age of Information. Here, in midst of the climate melt-down and a deadly pandemic we have now got the time to reflect on our doings and ourselves.

For the Month of April the theme is the Story of the Earth. This edition showcases the beauty of the Earth and also of our readers who have shared a little of their story with us.



# MENTORS

**MEHER VISWANTH**  
CSE DEPT. 4TH YEAR



**SAI SHRAVAN**  
MECH DEPT. 4TH YEAR

**MOHSAIN DASHTI**  
ECE DEPT. 4TH YEAR





# GRAPHIC DESIGN TEAM



**SAI KRISHNA MATTA**  
CSE DEPT. 3RD YEAR



**BOORA AKASH**  
EEE DEPT. 3RD YEAR



**L.V.M.S.A.N BHARADWAJ**  
CSE DEPT. 3RD YEAR



**SAI CHANDAN REGONDA**  
CSE 2ND. YEAR



**SAI ANURAG**  
CSE DEPT. 1ST YEAR



# CONTENT WRITERS TEAM



**VANDANA**  
CSE DEPT. 2ND YEAR



**SHREYA REDDY**  
CSE DEPT. 2ND YEAR



**TEJAS**  
ECE DEPT. 3RD YEAR



**LASYA MAYUKHA**  
CSE DEPT. 3RD YEAR



**SREEJA**  
CSE DEPT. 2ND YEAR



**HITESH**  
CSE DEPT. 3RD YEAR



**CHETANA REDDY**  
ECE DEPT. 1ST YEAR



**ASHISH**  
ECE DEPT. 1ST YEAR



**AYUB ASHRAF**  
ECE DEPT. 2ND YEAR



**RIKSHITH**  
CSE DEPT. 2ND YEAR



**SAMANVITHA**  
ECE DEPT. 2ND YEAR



**POOJITHA**  
EEE DEPT. 3RD YEAR



**SAMPREETH**  
CSE DEPT. 3RD YEAR







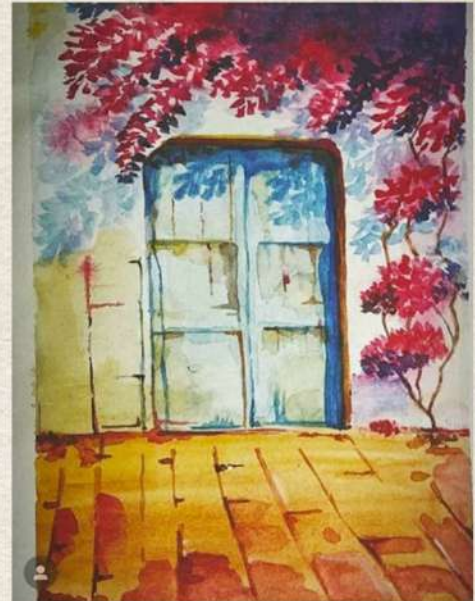
# Happenings



# THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

The professional body has been busy during Quarantine. Helping students learn and cultivate their skills. The body has conducted several events and webinars. The events being Living Room's Got Talent, Puzzle Days and Energy Bingo. Living Room's Got Talent was an event for students to showcase their talents from the safety of their homes. Talents including art, dance, music and drama. Students were asked to submit their entries @living\_room\_got\_talent .

Puzzle Day's was held in collaboration with Harvard University. Conducting puzzle-solving events in teams of 2-8 players for a span of 3 days. The last event was Energy Bingo which was with the PES Chapter of the IEEE SB. Energy Bingo was held to test and enhance technical skills by solving questions in a given amount of time.



The SB also hosted many webinars which were both tech-based and promoted life skills. They conducted four webinars.

The first was the “5G fighter Aircraft Avionics” under the GRSS Chapter. A 5G fighter aircraft is a jet fighter classification known to be one of the most advanced aircrafts around the world. India is independently developing a twin-engine 5G fighter aircraft, called the AMCA produced by Hindustan Aeronautics Limited (HAL).

The students learned more about the aircraft from one of the directors of HAL himself, Dr D. K. Sunil, Head Communication, Strategic Electronics Research & Design Centre.



The second was Natural Language Processing (NLP) under clusters. NLP is a method of programming computers to process and analyse large amounts of natural language data. The speaker for the webinar Gayathri Peesapati is a student of GRIET, pursuing 3rd-year B-Tech in CSE. She has graduated from the ISB Technology entrepreneurship program and has worked on multiple projects. She began the session by defining NLP and the several ways in which it is being used around us in real life. Ms Gayathri illustrated functions and properties of NLP Text Summarization in a detailed fashion with relevant codes and output which boosted enthusiasm among participants to further explore the field of Natural Language Processing. The webinar ended with an interactive session clearing student's valuable queries.

Another one on the same day was with the CSI SB of GRIET they came up with an interactive webinar on PITCHING INNOVATIVE IDEAS by Chief Innovator



PRASU, Innovation & Mobility, Member at Large, Board of Governors at IEEE TEMS & Chairman TEMS India, Dr Sudeendra Koushik himself.

The last webinar was by Mrs Indira, Head Chief and Nutritionist of Hyderabad Ruchulu. She conducted a webinar on the Importance of Healthy Living and Nutritious Food. The webinar elucidates on the value of incorporating nutritious and balanced diets into one's lifestyle along with a live cooking demonstration of the Pizza Dosa. The session was very interactive with a lot of queries. Mrs Indira encouraged everyone to stay healthy and try to have a semblance of Healthy living during these times.

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<ul style="list-style-type: none"> <li>Normalization           <ul style="list-style-type: none"> <li>Stemming</li> <li>Lemmatization</li> <li>Converting all letters to lower or upper case</li> <li>Removing numbers or converting numbers to text</li> <li>Removing punctuation or such</li> <li>Removal of stop words</li> </ul> </li> </ul>	
Input	["I", "love", "swimming", "and", "I", "love", "sports", "well", "I", "Am", "a", "student", "I", "love", "to", "play", "the", "game", "of", "studying", "for", "100%"]
After removing stopwords & punctuation	love swimming swim quite well student let studying
Stemming (Porter Stemmer)	love swim swim quit well student let studi
Lemmatization (Mordnet Lemmatizer)	love swimming swim quite well student let studying

```

1 Exporting nltk & downloading all the packages in it
2 Import nltk
3 nltk.download('stopwords')
4 nltk.download('wordnet')
5 nltk.download('punkt')

[nltk_data] Downloading package stopwords to /nltk_data...
[nltk_data]   Unzipping corpora/stopwords.zip
[nltk_data] Downloading package wordnet to /nltk_data...
[nltk_data]   Unzipping corpora/wordnet.zip
[nltk_data] Downloading package punkt to /nltk_data...
[nltk_data]   Unzipping treebank/punkt.zip
True

[4]: 1 Requests for the built-in set of stopwords
      2 Effective stopper for stemming
      3 Remove for duplicates - to avoid the data
      4 Make tokenizer & word tokenizer are built-in modules for word tokenization & sentence tokenization
      5
      6 Now nltk.corpus import stopwords
      7 Now nltk.stem import PorterStemmer
  
```



# ECO VOLUNTEERING

The Green Campus team came up with an event, Eco Volunteering. The intention of the event was to spread awareness and help those in need. The event stretched from the 24th of March to 5th of April.

Several activities were encouraged. Activities which were based on general awareness, general activities which encourage hobbies and social service. These activities included:

## Tutorials on how to make masks out of handkerchiefs



## Doodles based on the current situation and saluting social service workers

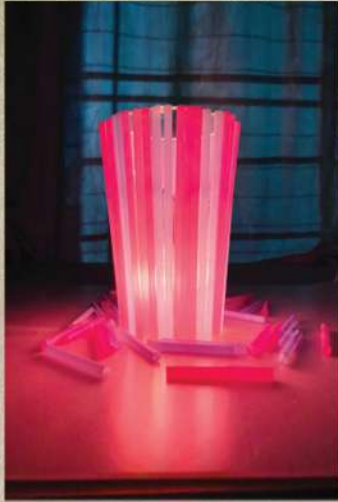


## Quotes encouraging Unity in disparaging times





## DIY's tutorials to make useful things out of waste



## Campaigns like Stay at home, Hand Wash, Watering plants



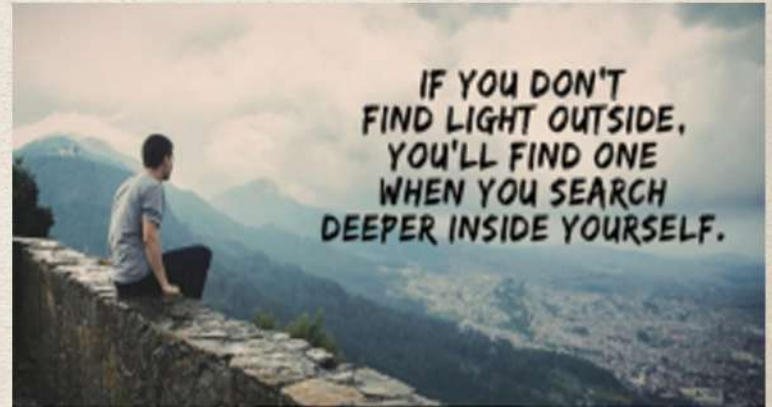
## How to make healthy shakes which keep our immunity strong



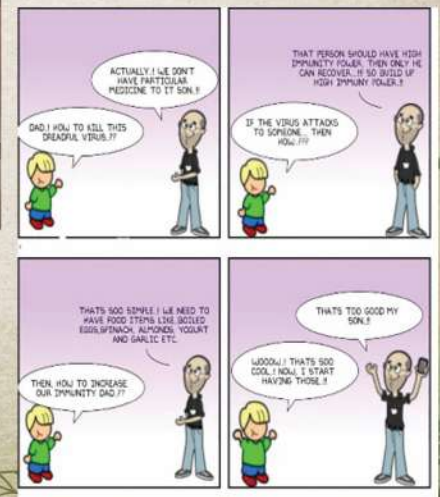
## Slogan Making Contest

>>Be the valentine for quarantine to make your days safe and sane.

>>To enjoy your LIFE ,enjoy your QUARANTINE now



## Comics were taken





## Messages from elders assuring people



## Lighting Diyas as an act of Unity.





# APP RUSH CHALLENGE

The APP RUSH challenge was conducted by ISTE during the month of April. The main motto was to bring out all apps which are not much known and are very unique moreover, which can be installed on all platforms.

The real intention was better and productive usage of the smart phone rather than scrolling through it. Some of the apps which students enthusiastically brought to us are –

## SOLO LEARN

SoloLearn has the largest collection of FREE code learning content, from beginner to pro! Choose from thousands of programming topics to learn coding concepts, brush up your programming knowledge, or stay aligned with the latest coding trends.

**SOLO LEARN**  
LEARN PLAYING. PLAY LEARNING



## STUMAGZ

StuMagz is a one-stop discovery platform that enables students to collaborate with like minded students, share and showcase their talent and get internship and employment opportunities, besides keeping up with college updates and more.



## ANY BOOKS

AnyBooks puts millions of books at your fingertips. It's a must-to-have app for book lovers to read free ebooks. Download free books, and maintain your personal library and read at your convenience using the built-in ebook reader as well as English dictionary.





# RHYTHMS ACTIVITIES

The whole country's been under lockdown since the month of March. Job holders were asked to work from home, doctors and municipal corporation fighting against the pandemic. But the students of GRIET have been keeping up with their online classes and talents. GRIET Rhythms, the cultural hub of the college came up with an innovative event which helps the participants to brush up their skills and also for the audience.

We all are very familiar with playing 'Anthakshari' since our childhood. Rhythms tried it out on the digital space with the game being called 'QuaranTunes' on the virtual platform, Instagram and it became an instant hit. A letter was given by Team Rhythms and a song was sung by the first participant who tagged their friend to sing with the letter given by their friend. Songs sung were sent to Tarang and Gita, who also participated with their amazing voices.

The second activity that Rhythms came up with was 'QuarantMoves'. The participants were given the freedom to showcase their dance moves. Videos of these smooth dancers were put up and shared by all. The college as seen through the page is home to many talented dancers.

The recent update as per Team Rhythms is a game named 'Heromania'. Some of the famous Actors were taken and were given a day of the week. The participants were asked to give a video of them singing or dancing or acting. The twist is that they had to do it in the artist of the day's style or on their work.





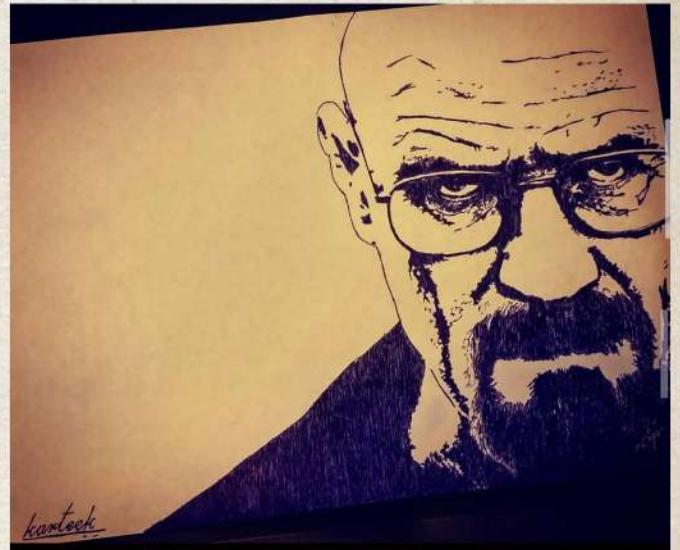
# PANDRAMIC PANDEMIC

Quarantine came bearing utter boredom, but nevertheless Team Spirals got its followers covered. During this sad and hostile environment, the team conducted an online event to engage its followers in something productive, informative and fun. The team conducted an online survey in order to help people better understand the current matter of concern- COVID-19. This e-event was conducted on Instagram using their Instagram handle @spirals\_griet for a period of 6 days (April 1 st – April 6 th ), the team posted various polls and the audience was allowed to choose between Yes/No. Certain questions required for them to answer in terms of the percentage they agreed/disagreed with a topic.

The team covered a plethora of topics with regard to COVID-19 such as Pandemics of the past - Can Ayurveda and Vedic sciences provide a cure to this catastrophe? And some such questions which related the past to the present were asked.

## Question-6

**Should the police/armed forces treat civilians better when seen outside during the lockdown?**



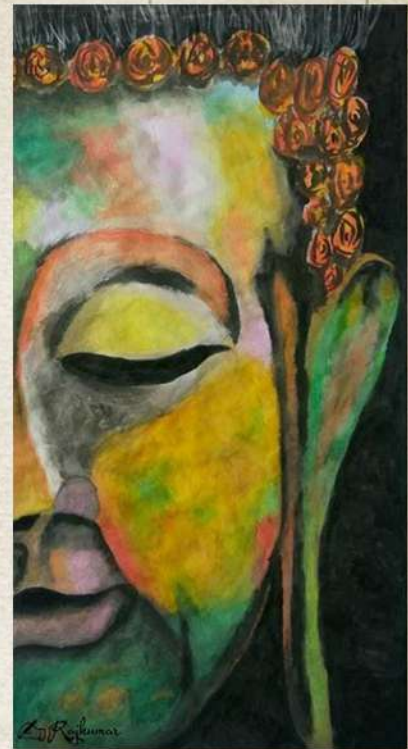
Now the question is have we been looking in the wrong places all this while? The crisis of today garnered a lot more attention considering the now factor it offered- Will social distancing be a sufficient measure to fight this pandemic? little of their story with us.

The entire nation has united to follow the decision of being divided until this horrifying period comes to an end. In times like these is it viable for the privileged to come out to lend a hand to support the destitute? Are questions that must be answered right away? Doctors, nurses and innumerable public health care officials and cleanliness officials are risking their lives to keep us alive while all they ask us to do is stay home with our families while they are unaware if they will ever see theirs again.



Considering the fact that the entire nation is in a state of lockdown right now, how should one gather information? The important thing to keep in mind is to find the right sources of information in order to avoid stress and anxiety. The aftermath of the outbreak, as far as it seems, will come bearing nothing but brunt mankind has ever seen. Prevention and preparation is the key to any problem, as history suggests one who doesn't learn from their mistakes is doomed to fail.

The results of the polls gave us an insight into the minds of the audience. They also helped the team better understand the existing perspectives of their peers and hence help the society to the best of their abilities. Also of our readers who have shared a little of their story with us.



## **THEME - 5**

**Do you think social distancing and the increasing distress is taking a toll on your mental health?**

## **Question-8**

**Do you think that a non-democratic country fares better in dealing with pandemics?**





# CSI

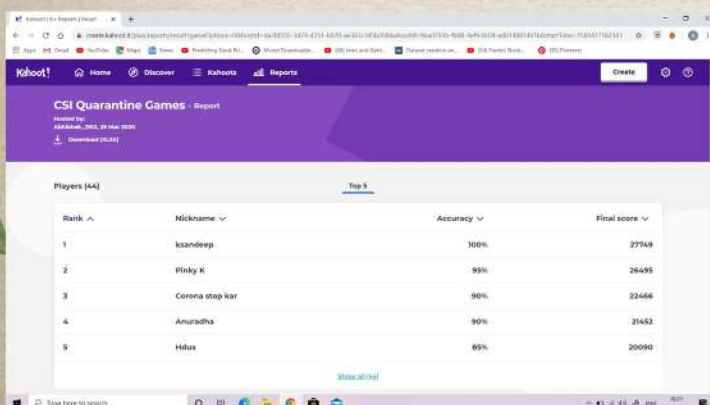
This Quarantine, while all the students have been limited to their houses. With all the students turning into sloth bears and their minds were getting rusted, at that time when every student was anticipating something exciting to do this quarantine then the CSI SB has conducted a quiz competition based on coding-skills which was officially named as Quarantine quiz and was hosted online on a platform called Kahoot on the 29th of March 2020. They also conducted a webinar with the IEEE SB of GRIET.

The webinar was on PITCHING INNOVATIVE IDEAS by Chief Innovator PRASU, Innovation & Mobility, Member at Large, Board of Governors at IEEE TEMs & Chairman TEMS India, Dr Sudeendra Koushik himself. He says that inspiration is vital for innovation and so is competition.

He referred to the course Design Thinking and his book. It was a very interactive session like how is creativity and innovation related and how innovation affects leadership.

Affects leadership. The Quiz was conducted by CSI SB Counsellor Dr.K.Madhavi HOD of Computer Science Department along with the nominee faculty N. Krishna Chaitanya, Sreedhar Mourya, K. Soumya Priya, all of them being Assistant Professors of the Computer Science Department and President Abhishek Bhandwalkar of 3rd-year Computer Science Department was a huge success as it received a very good response from the students with over 50+ of them enthusiastically participated in the competition which exalted their minds to the next level.

The quiz consisted of challenging questions that led students to think out of the box and helped students to improve their problem-solving skills and encouraged them to think out of the box in real-life problem-solving situations. Overall, the quiz was exciting as well as challenging for many students out there and all of them learned something new that day.



The screenshot shows a Kahoot! quiz report for 'CSI Quarantine Games'. It lists the top 5 players with their ranks, nicknames, accuracy percentages, and final scores.

Rank	Nickname	Accuracy	Final score
1	ksandeeep	100%	27769
2	Pinky K	99%	26495
3	Corona step kar	90%	22466
4	Amuradha	90%	21452
5	Hdax	85%	20090





# QUIZZICALS

Quizzicals held two quizzes during the quarantine. The quiz was dubbed as the Quarantine Quiz. The quizzes were held to prove that despite the lockdown the doorway to knowledge and self-growth was and is still open. And the best way to test the facts you have read and brushed up upon was through a quiz.

Quarantine Quiz was a series of 2 quizzes which consisted of hot topics

such as the COVID-19 to classics such as literature. These quizzes were exciting and challenging.

The first Quiz focused on GK(General Knowledge), COVID-19 Awareness, brainteasers, puzzles, the Ramayana and the Mahabharata. The second quiz was a speed quiz 15 minutes to answer 15 questions on General Knowledge and COVID-19.





# OPINIONS ON DIGITAL PEDAGOGY AND THE LOCKDOWN

With the extension of the Lockdown and the rather increasingly worrying news, students who have been attending online classes, picking up new hobbies, and reviving old ones have given us a bit of how their lives look like now and how the world of online classes has made it a bit normal.

Shravya says, "The lockdown has impacted everybody's lives quite drastically. My routine has been different certainly. Online classes in the morning are helping me to stay connected and inline with my academics."

Nupur says, "Normal life has gotten a lot more convenient for me. No distractions, no restrictions on work timings. But it does get boring once in a while as I don't get to go meet my close friends or just go out for fun's sake. The lockdown has affected my sleeping schedule and also diet. But in all, the current lifestyle more or less works for me. The classes keep me in sync with college and are helpful though there are a lot of disturbances. It would be easier if students are restricted from messing with screens."

Another student, Chetana says, "Our college took an initiative to start online classes in order to make sure we continue to remain in contact with our studies. I appreciate our teachers' efforts. Our Lecturers made sure a soft copy of every book was available for us to learn from in the absence of our textbooks. Although some students faced difficulties in attending the video calls due to network issues overall it has been helpful. A sort of normal in not so normal times."

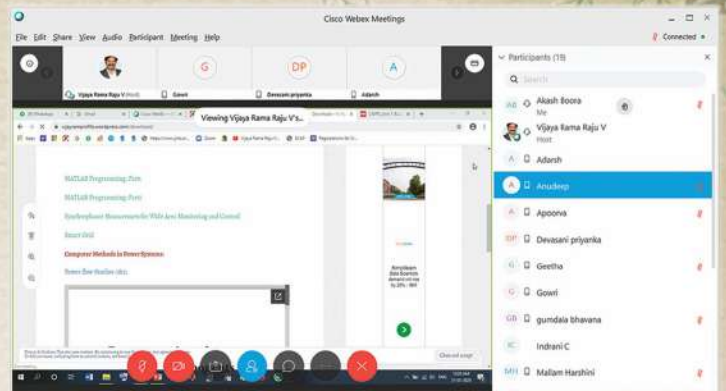
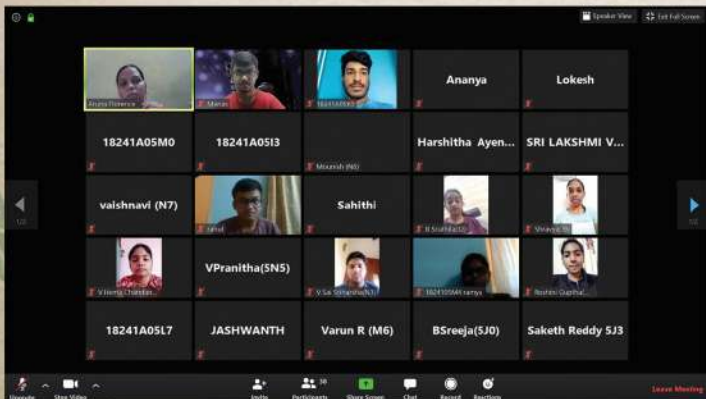
Savitha says, "Well I like the idea of lockdown because health is wealth. And colleges have also come up with ideas to continue the classes but it's not so interactive. Well since the essential goods and needs are being supplied which is helping us to cope up with the situation. So I think we will come out of this lockdown healthy and strong as a nation."

Ananya says, "During this extraordinary and exceptional situation worldwide, it is important to stay indoors and practice social distancing as a responsible citizen. Personally, this



coronavirus crisis locked us up. Now it's just our family together. I started doing things I usually don't or never had time for like the Harry Potter book marathon, helping with the household chores, playing board games together, prank war with my sister, and eating our meals together. My most favorite activity during this quarantine is having a real talk with my parents, their experiences, and all their fun childhood stories. Although it was hard at the beginning to stay indoors, I got used to it. It's not bad as I thought it'd be in the beginning. After years of rushing around, we are all together and that's something very refreshing. It's indeed surprising that good things can happen during such a hard time, but then, maybe this is what is keeping me sane."

Namrata says, "The lockdown has brought out of the box methods for student bodies to interact with students."



NSS has done six inspiring yet productive events so far, Street Cause gave us an idea to fulfill our social responsibility by sitting at home, and CGJ has conducted fun activities."

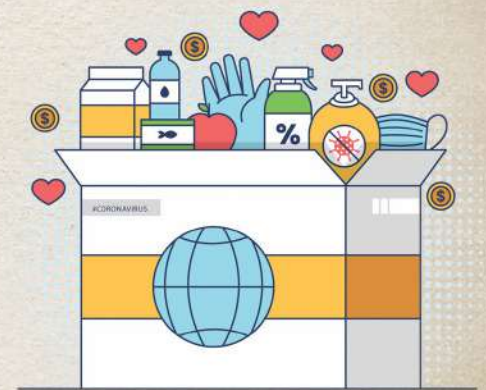
Another student says, "I am a visual learner. I prefer the classroom but the online teaching just isn't where I can learn to a good level. Online classes are general hard to focus and dedicate ourselves to even when we are doing courses put of interest. I find putting my 100% a bit difficult. They create a sense of isolation and moreover it gives students a chance to procrastinate."

A student says, "Online classes in my opinion haven't been much effective. The topics that weren't covered before the lockdown, couldn't be taught with the same enthusiasm and pace. There seemed to be a disconnect between faculty and students. Revision sessions however were very helpful, discussing previously taught topics was fruitful."





# Donations





# DONATIONS

**Gokaraju Rangaraju Institute of Engineering and Technology** has come forward during the time of need and donated Rs 25L to CM Relief Fund.



## NSS:

SURI BABU, 4th year student, NSS President has come forward to help the families in need of necessities. Donated each family 3kg Rice, onions, tomatoes, green chilies, brinjal, potatoes.

NSS has also donated groceries to Nirman Intellectually Challenged Home on 14th April.



As there are poor people looking forward for food supplies amidst the quarantine, NSS donated food packets to nearly 600 people at Film Nagar and Cancer hospital on 17th April. About a 100 face-shields were distributed at the hospital. This was done with the help of the Police Department and a few Police Officers accompanied the volunteers.





## STREET CAUSE GRIET:

As everyone are fighting against COVID-19 together, SC GRIET has shown its support by donating the necessary groceries to Sahrudaya Oldage Home, Kazipet and Kamalamma Seva Samitha



## ECELL:

Food packets were distributed by the ECELL team to the poor around Madhapur area on 23rd April.





# Articles Arts Poems Riddles





# ARTICLES

## Thoughts During COVID19-Quarantine

Well, at a time when all of us have been challenged to sit at home and forced to quarantine ourselves, at a time where all the worlds' at peril and all people are scared of their fate and if were to ever reach normalcy, it's only natural to believe that to keep our morales high and keeping ourselves and loved entertained, we have found many different ways to do so.

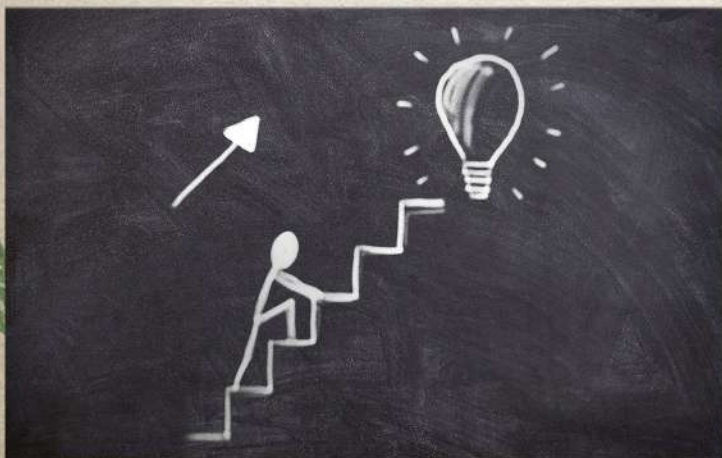
While some are honing their baking skills and some others their creative skills, others have pushed boundaries and done things which made them learn new skills and above all discover their true self. In a way, this is a blessing in disguise as we have begun to understand

who we are and what we are to achieve in life. Our life always before revolved around **"What can I get out of the world?"** but now its become **"How can I help out to the world?"**.

You see, unless something hits us, we fail to see what we really cherish and are happy with. We fail to understand that all we ever need is within us as long as we believe we can achieve it. Mother Nature has made us realize that **"If you keep taking and not give when the tables turn you shall have nothing to with live."**

To keep it short, life isn't about what you can give or take, it's about maintaining the balance and living with it. Our life is greater than what we think of it, and how it goes about is all on us. And above all, should you ever meet a Public Servant .i.e Doctors, Police, cleaners, etc give them a smile and let your eyes beam with respect, that way we say our thanks for their efforts, and they continue to serve humanity and country with compassion and pride.

- Tejas Nambiar  
Third Year  
ECE B





# COVID 19 Treatment

With all the COVID19 pandemic running on, one has many uncleared doubts in mind like how are the carriers identified? Or what are the testes being conducted? Is a person kept quarantined even when they test negative? Or how is the person being declared as cured? We have come upon to give you a brief information so you can learn about the situation surrounding you.

The tests are conducted on the people who have travel history in 2 weeks before March 31.

The people showing symptoms of COVID19 are checked and the one's who had contact with the ones tested positive are considered for testing.

There is a central hotline number +91-11-23978046 by which a person can get checked themselves staying at home. They can also get checked at the nearest facility if they are unsure of their symptoms.



Nasal and throat swabs samples are collected from suspected cases and are being mixed in a viral transport medium and transported on ice to designated labs. On every sample, the particular individual's details, exposure history, symptoms and the required details are filled. During testing, precautions, like using PPE, for infection control during all procedures must be taken along with proper waste disposable measures are taken.

The tested person is being kept in isolation and is treated depending on their condition and then discharged. They are asked to stay quarantined till 14 days from the date of return to India.

If a person is tested positive, a "confirmed case" protocol is followed, which lists the drugs and containment measures to be used for the treatment, depending upon the severity of the illness.

A person is being discharged after their chest radiograph is clear. 2 respiratory samples are taken, 1 after 14 days from the first sample collected which turned out positive and the other taken within 24 hours of the previous sample, should both test negative for COVID19.

- Poojitha Setty  
Third Year  
EEE A

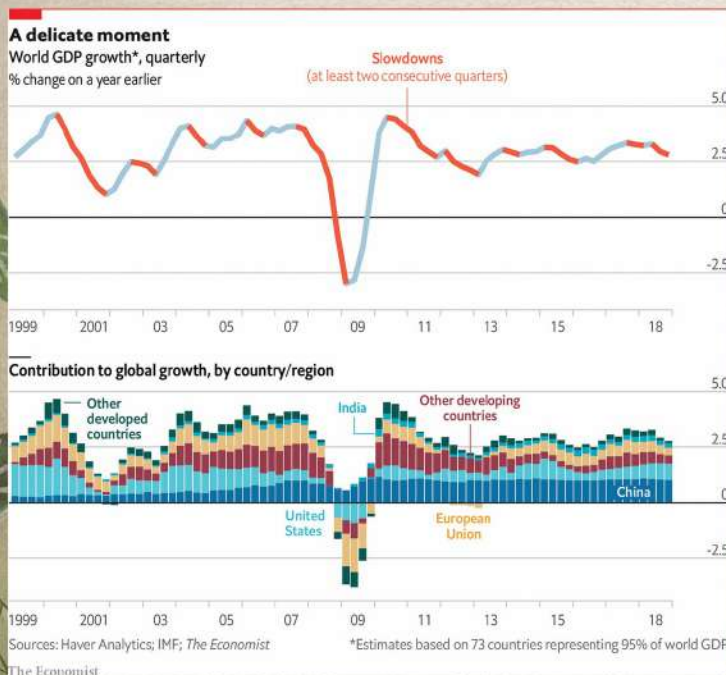


# India has the opportunity to build a diverse economy after COVID-19

After a long 3-months of lockdown in China, it has started its normal life. China's main economic source manufacturing industries have reopened. China is grappling as its supremacy in authority in manufacturing is slowly going down not only because of COVID-19 but there are many factors. In the 1970s communist China had introduced capitalism in its economic policy and declared few zones as special economic zones to build ports and factories after it allowed foreign trade and investment that led the economy of China to boost. The main reason for investment in China in those times was low labor expenses, tax loss, import-export efficiency. Meanwhile, the process from the 1980s to 2020 there were few drastic changes in the 1990's average income of workers was \$150 in 2005 average income has changed to \$2800 currently it stands at \$13,500. Within 20 years it will be looking at an 850% increment in its average

income of labor, which is a massive increment. The world is looking at this massive increment differently, as it is not possible to manufacture a product with low expenses anymore. The massive increment did not affect the manufacturing units humongously but after COVID-19 when all Chinese manufacturing units were shut down, the whole world started suffering from a lack of essential goods. China is one of the largest producers in medical equipment and some drugs could not be supplied and causing a delay of 2-3 months. Because of the delay in delivery, many companies are thinking of shifting their manufacturing units.

India is one of the best countries to set up manufacturing units, the country where 50% of the economy depends on agriculture but the infrastructure is a bit skew-whiff. In 2002 the GDP of India was \$470 now in 2020 it is \$2100 with such economic growth more than 300 million people have come out of poverty. India's economic growth in these few years is not



## Global Economy to End Decade on a Low Note

Estimated worldwide real GDP growth



\* forecast as of November 2019  
Source: OECD

statista



is not because of the manufacturing unit but because of service-related sectors like the bank, IT and retail, manufacturing units can be added. The main advantage to invest in India is the young workforce and extremely low-cost labor when compared with China.

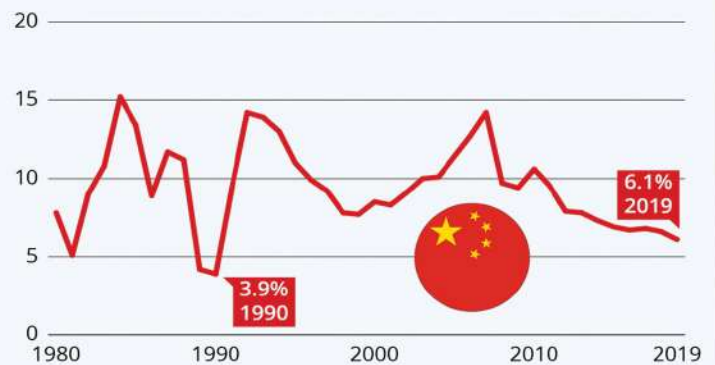
If we can

- (a) Capitalise India like china
- (b) Accelerate Make in India
- (c) Employ a large workforce and low-cost labor
- (d) Develop and Manufacture
- (e) Target the Global Market (in the production of goods)

After COVID-19, India will have the opportunity to build an economy amid all the disruption and economic fallout, that is resilient and attractive to the global manufacturers and services as the majority of the business world have faced disruptions and economic fallout. If India expects to do businesses with low risk instead of having too many supply chain

## China Posts Weakest Economic Growth Since 1990

China's real GDP growth since 1980 (in %)



Source: National Bureau of Statistics of China

productions concentrated in one area it must try to disperse them.

But India will also have to make sure that it takes the steps that it needs to create more efficient opportunities for supply chains to be located in India, whether it's on economic incentives or labor.

**“Let India make the best economy and healthcare of a bad situation”**

- Vidya Vardhini  
Second Year  
CSE D



# Applications That Battle Climate Change

Climate change is no longer the next big challenge, it has already arrived. Every little thing that we do, is making it worse. Your everyday routine, every inch you travel by a motorized means- adds up carbon dioxide to the atmosphere.

Climate change and its effects are accelerating, and climate-related catastrophes are piling up, season after season.

If you are like me, you spend a lot of time surfing the web, and also an aspiring environmentalist, you'd be thrilled to discover ways to help fight this battle is just a click away.

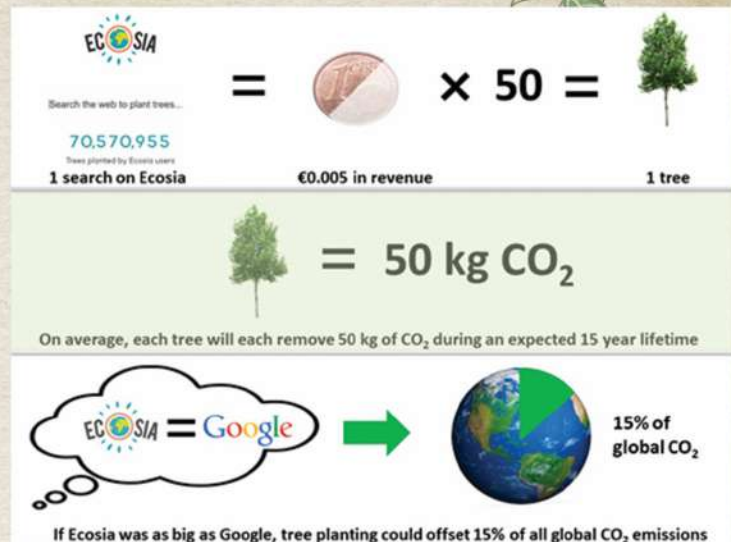
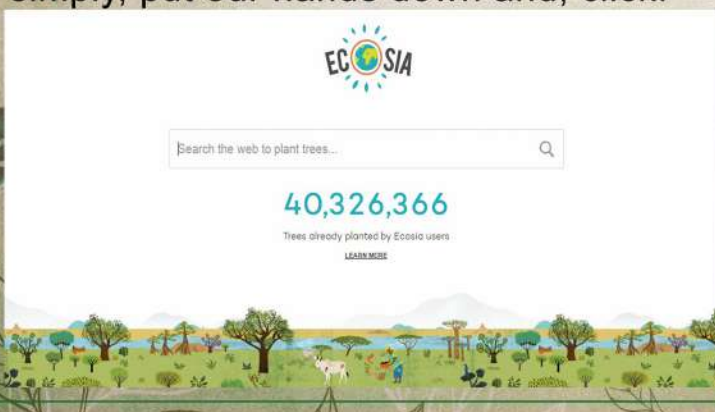
Enter "**ECOSIA**", a German-based online search engine that donates 80 percent of its profits to tree-planting conservation organizations worldwide.

Well, how does planting trees help fight climate change?

Clean air, water, the cooler climate can all be accomplished by.....trees.

In other words, trees fight climate change.

All we have to do to help them is simply, put our hands down and, click.



**SHOP ZERO** is an online e-commerce market that is trying to eliminate plastic usage. And providing a platform for eco-friendly businesses to have an open market.

## *How is plastic harmful?*

Well, to put it simply, plastic is harmful because it is "Non-Biodegradable".

**FOREST: STAY FOCUSED**, an app that's specifically meant to keep you productive.

It's simple, you plant a seed in the app and set a timer. You watch the seed slowly turn into a tree. If you leave the app in the middle, the tree dies.





Forest keeps you from being addicted to your screen all the time and rewards you for not using it, helping you to use the time to finish your work without losing focus.

The credits that you gain through the app can be invested to plant seeds across the world.



**THE BODY SHOP** started in Brighton, England in 1976 with one vision in mind- a commitment to enrich our people and our planet.



Being 100% vegetarian and always and forever being firmly against animal testing, they were one of the first cosmetic companies to follow this path.

Contributing to society countless times and helping communities.

Businesses have started to realize the potential and imminent danger that is lying ahead, and are working to change it.

- *Karthik Veeravalli*  
*Second Year*  
*CSE D*



# Earth Day

Nature is suffering. Australian fires, heat records, and the worst locust invasion in Kenya. Now we face COVID-19, a worldwide health pandemic link to the health of our ecosystem.

Climate change, man-made changes to nature as well as crimes such as deforestation, land-use change, intensified agriculture, and livestock production or the growing illegal wildlife trade, can increase contact and the transmission of infectious diseases from animals to humans (zoonotic diseases) like COVID-19.

From one new infection disease that emerges in humans every 4 months, 75% of these emerging diseases come from animals, according to the UN Environment.

This shows the close relationships between human, animal, and environmental health.

Let's remind more than ever in this International Earth Day that we need a shift to a more sustainable economy that works for both people and the planet.

Earth Day is April 22 of every year.



Earth Day 2020 will mark the 50th anniversary.

## ***What is the theme of Earth Day?***

Earth Day is assigned a different theme or area of focus each year; this year's theme is Climate Action.

## ***What do we do on Earth day?***

Most years, Earth Day events range from river cleanups to invasive removals. But this year with social distancing in place for many of us, Earth Day has gone digital. Virtual events, like environmental lectures and films, will take place.

Climate change represents the biggest challenge to the future of humanity and the life-support systems that make our world habitable.

Earth Day 2020 will be far more than a day. It must be a historic moment when citizens of the world rise up in a united call for the creativity, innovation, ambition, and bravery that we need to meet our climate crisis and seize the enormous opportunities of a zero-carbon future.

## ***Why do we observe Earth day?***

Earth Day was a unified response to an environment in crisis — oil spills, smog, rivers so polluted they literally caught fire.

On April 22, 1970, 20 million Americans — 10% of the U.S. population at the time — took to the streets, college campuses, and hundreds of cities to protest environmental ignorance and demand a new way forward for our planet.



## ***When was the first Earth Day?***

The first Earth Day in 1970 launched a wave of action, including the passage of landmark environmental laws in the United States. The Clean Air, Clean Water, and Endangered Species Acts were created in response to the first Earth Day in 1970, as well as the creation of the Environmental Protection Agency (EPA). Many countries soon adopted similar laws.

## ***Earth day's History***

### **1970**

The first Earth Day mobilizes 20 million Americans to call for increased protections for our planet

### **1990**

Earth Day goes global, mobilizing 200 million people in 141 countries

### **2000**

Earth Day leverages the power of digital media to build millions of local conversations across more than 180 countries

### **2010**

Earth Day Network launches A Billion Acts of Green and The Canopy Project. Earth Day 2010 engages 75,000 global partners in 192 countries

### ***Millions Join Earth Day Observances Across the Nation***



### **2020**

Earth Day will mark 50 years with global activations that aim to mobilize a billion people worldwide for transformative action for our planet

## ***Significance of Earth Day***

Earth Day continues to hold major international significance: In 2016, the United Nations chose Earth Day as the day when the historic Paris Agreement on climate change was signed into force.

At the end of 2020, nations will be expected to increase their national commitments to the 2015 Paris Agreement on climate change. The time is now for citizens to call for greater global ambition to tackle our climate crisis. Unless every country in the world steps up – and steps up with urgency and ambition — we are consigning current and future generations to a dangerous future.





Earth Day led to the passage of landmark environmental laws in the United States, including the Clean Air, Clean Water, and Endangered Species Acts. Many countries soon adopted similar laws, and in 2016, the United Nations chose Earth Day as the day to sign the Paris Climate Agreement into force.



### ***What can we do on this Earth Day?***

- > Plant wildflowers!
- > Go native! Plants thrive best when they're natural to your area.
- > Bring nature into the garden with plants that attract butterflies and plants that attract hummingbirds!
- > Invite native bees to your garden. These are the bees that pollinate your plants for more flowers and food! Perhaps add a native bee house to your backyard.

- *Ayub Ashraf*  
*Second Year*  
*EEC*



# Good Friday

## What is Good Friday?

For Christians, Good Friday is a crucial day of the year because it celebrates what we believe to be the most momentous weekend in the history of the world. Ever since Jesus died and was raised, Christians have proclaimed the cross and resurrection of Jesus to be the decisive turning point for all creation. Paul considered it to be “of first importance” that Jesus died for our sins, was buried, and was raised to life on the third day, all following what God had promised all along in the Scriptures.

Simply put, Good Friday is set aside for Christians to remember and mourn Jesus’s death. It was on this day that religious leaders arrested Jesus for claiming to be the son of God and King of the Jews, as the biblical story goes. The leaders sentenced Jesus to crucifixion, the highest form of criminal punishment at the time, for his teachings. And was then beaten, forced to carry a heavy wooden cross through jeering crowds, and finally nailed to the cross by his wrists and feet where he hung until he died.

Despite its name, Good Friday is a day for somber reflection. Each Friday



before Easter, Christians solemnly honor the way Jesus suffered and died for their sins. They might attend a service that recounts Jesus’s painful crucifixion, and some even refrain from eating to show their sorrow. Churches strip their altars bare and muffle their bells as a sign of mourning.

But Christians soon turn to happier festivities: On the following Sunday, they celebrate Easter—the day of Jesus’s resurrection—with joyful songs and family gatherings. Now that you know why we celebrate Good Friday.

The date of Good Friday varies from one year to the next on both the Gregorian and Julian calendars. Eastern and Western Christianity disagree over the computation of the date of Easter and therefore of Good Friday.

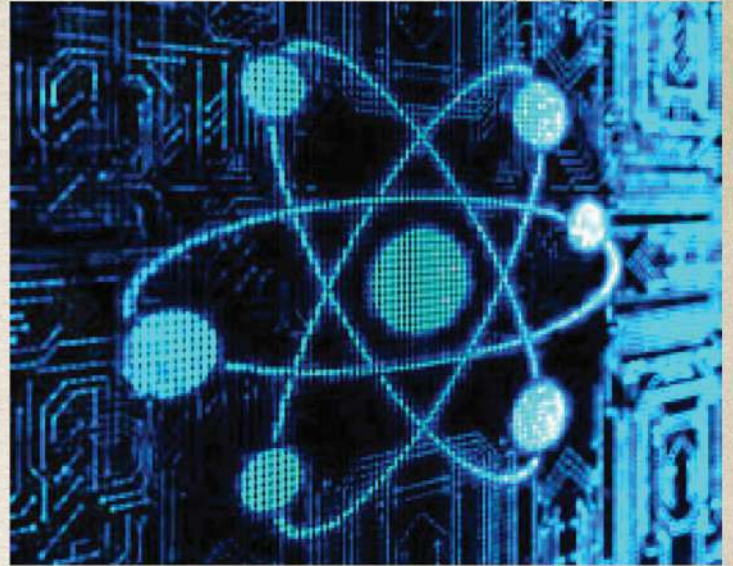
- *Tejas Nambiar*  
Second Year  
ECE B



# Quantum Technology

Some say that we are in the age of AI, but we are in the age of Quantum technology too. Every time someone uses the word Quantum or Quantum tech, usually, we refer to it as the hyped word, and we refer to the quantum tunnel in the movie 'Avengers endgame', we aren't yet in that phase of life now. The word Quantum Technology is a plethora of things for example we have quantum tunneling, quantum computers, quantum sensing, etc on which researches are in progress. Quantum technology is an emerging field of Physics and Engineering, which relies on the principles of Quantum physics. According to John von Neumann, Quantum technology is different from the deterministic classical mechanics, His vast explanations have been used to justify the technology's superiority.

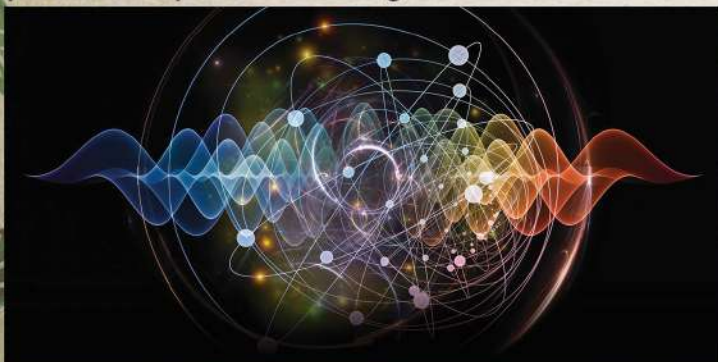
Quantum may seem esoteric to many casual observers, but we have been using Quantum technology for many decades, for example, Global positioning system (GPS) is based on quantum theory. As far as the medical field is concerned we use quantum technology to power up the Magnetic Resonance



Imaging (MRI) machines, etc.

There are many top companies like **Google, IBM, and Intel** that are aiming to work towards the bleeding edge tech called Quantum tech.

Sundar Pichai, CEO of Google, published a blog post trumpeting the triumph of the company's researchers in building a Quantum computer that performed a test computation in just 200 seconds that would have taken the best algorithms in the most supercomputers thousands of years to accomplish. Google's AI quantum team said that their goal is to build a fault-tolerant quantum computer as quickly as possible. They envision such a quantum device as being capable of achieving the advances in materials design that could lead to new lightweight batteries for cars and planes, more effective medicines, and better catalysts for producing fertilizer with more efficiency but with lesser carbon emissions.





**IBM** has been conducting researches on this kind of tech. As binary digits are the basic components of information in classical computers, Quantum bits or Qubits are for the quantum computers. And qubits can be in a state of 0, 1, or both at any given time. These computers can handle extremely complex calculations in parallel, but they require a huge amount of manufacturing precision just to be accurate. IBM is working on improving this, but it may take years before the improvements take hold and give quantum computing a chance to beat classical computers.

If there's any company that knows about large - scale electronics manufacturing, it's Intel, it's OIS developing, special capabilities around silicon fabrication and packaging to develop silicon quantum dot qubits, Qubits need the very low temperature to perform their task, they tend to enormously heat up during work, so intel has successfully tested its hot qubits to operate at 1-kelvin temperature and managed to give promising results but that's still quite cold, they hope that they can continue to increase temperature range in which qubits can operate.

Jun Ye, a physicist at the **National Institute of Standards and Technology** says that Using laser beams and

evaporation, he loads and traps atoms one by one in a crystal lattice made of light. These new atomic clocks are about 100 times more accurate than traditional atomic clocks. Ye says this improvement could have direct benefits for communications and navigation, with satellites sending information to each other and Earth using **laser beams instead of microwaves**. You could send precise instructions and navigation coordinates to an interplanetary spaceship so that you can synchronize its automatic landing on Mars.

How far are we to implement this so-called bleeding-edge tech into our daily lives? Within a decade, advances in quantum sensing may allow us to push MRI resolution down to the level of a single molecule and place sensors inside living cells to watch cellular mechanisms at work.

One such device that can deliver the technology's long-promised ability to help scientists do things like develop miraculous new materials, encrypt data with near-perfect security and accurately predict how Earth's climate will change is more than a decade away, but IBM, Microsoft, Google, Intel, and other tech heavyweights breathlessly tout each tiny, incremental step along the way.)

- *Budati Kiran Sai*  
*First Year*  
*ECE B*



## Book Review

**The Immortals of Meluha** is the first fiction book of the 'Shiva Trilogy' by Amish Tripathi. What makes this book, and the other two, a good read is the simplicity of language and an easy narrative style. The story hardly ever slows down thereby leading to one event or the other, so that the reader never loses interest.

The story is set on the land of ancient gods that is India and at a time when the Kailash mountain which was the Abode of Shiva was not known by the name of Tibet. The mythological stories I

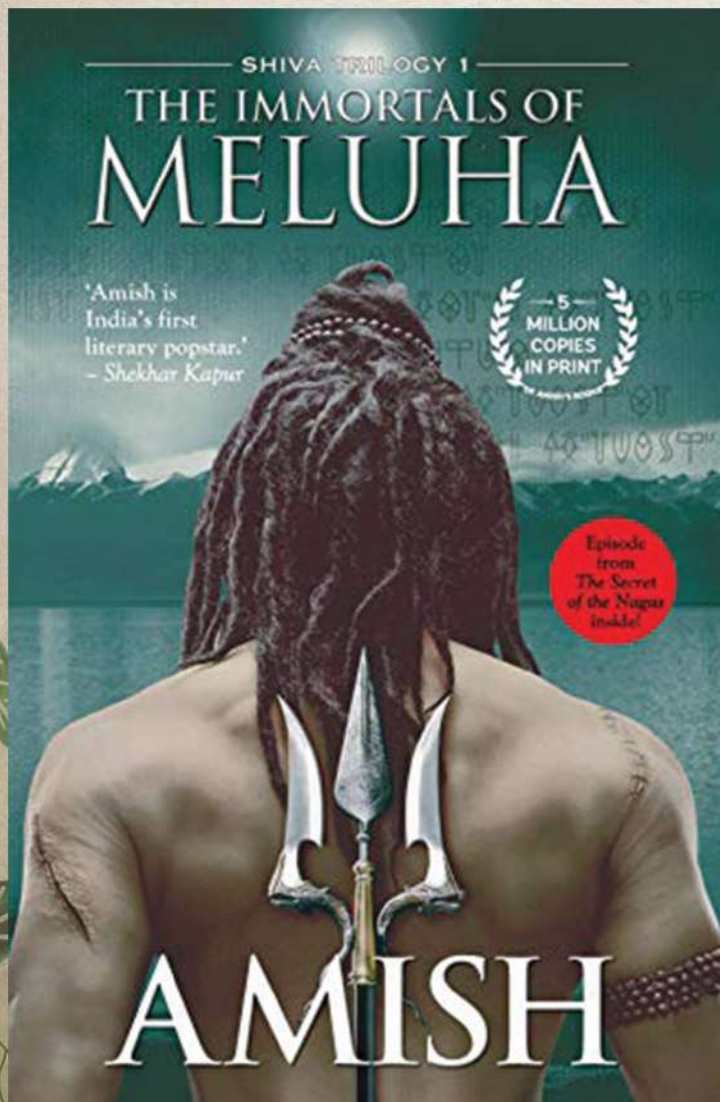
heard and read were always very formal in their tone and structure because our gods are meant to be worshiped and held in respectful awe.

So it comes as a bit of a jolt when you read about the Shiva in this book casually using modern mortals - 'dammit', 'rubbish', 'bloody hell', 'wow' and 'what a woman' and enjoying a good time with his marijuana chillum.

For the first time, I have come across a 'humane' God. Here is a person who was not born a God but was thrust into the role of one and fulfilled His destiny by making all the right choices and doing his duty towards mankind and Amish also shows Shiva as the Destroyer of Evil and a great Dancer and also how Sati (also known as Parvathi) was being a part in his journey as he is fulfilling his destiny.

Perhaps it is along these lines that Amish interprets the common chant that is 'Har Har Mahadev' to mean 'All of us are Mahadevs'.

Further, Amish reintroduces us to some very basic tenets of human nature when he speaks of the prominent features





of the Suryavanshi and Chandravanshi societies (the clan of the sun and the moon) and their differences. Also, by this, I realized that in our real world, we can classify people into Suryavanshis and Chandravanshis too, based on their characteristics and personalities. Suryavanshis represent the male characteristics, while the Chandravanshis represent the female features.

Another very important after-thought that this book leaves the reader with is the interpretation, or rather, the misinterpretation of good and evil. As the levels of intolerance for other cultures, religions, and communities rise driving unrest and widening rifts, it is refreshing to be reminded of the 'bigger picture.'

What is perceived as evil by someone may not necessarily be so in the eyes of another. As Mahadev learns, 'the difference between two dissimilar ways of life gets portrayed as a fight between good and evil; just because someone is different doesn't make them evil.'



Whether the book fires your imagination to dwell on the larger questions of life or not, it certainly is a good one time read. Perhaps Amish himself has fulfilled his destiny by writing this light-hearted trilogy that speaks to the current generation in a relatable tone and yet brings with it an underlying message from the beginning of time the message of Karma and dharma.

- *Bussa Rikshith*  
*Second Year*  
*CSE D*



# William Shakespeare

William Shakespeare was born on 26th April 1564 at Stratford and then got married to Anne Hathway at the age of eighteen. He had three kids. He died at the age of 56 in Warwickshire England.

William Shakespeare was a legendary writer. He has written many varieties of novels. William Shakespeare wrote many kinds of short stories, poems, novels etc. He was an actor too. In his early life he acted in plays too. Earlier he wrote comedies while at a later stage he wrote tragedies. His most accomplished works include Macbeth, Hamlet, Othello, King Lear etc. Many of his works have been adapted into both Hollywood and Bollywood movies.

The writings of Shakespeare influenced the English language, as his works contributed to standardize English language rules and grammar in the 17th



and 18th centuries. The words and phrases that he wrote were embedded in the language especially in "A Dictionary of the English Language" by Samuel Johnson. The introduction of new words as well as phrases had greatly enriched the English language, which made it more expressive and colourful. Some believe that Shakespeare was the first to use about 1,700 words – words that he created by borrowing from other languages, changing verbs into adjectives or nouns and vice versa, adding suffixes and prefixes and connecting other words as well as creating new ones. He had several phrases that are still very much a part of today's language and conversation such as full circle, a sorry sight, strange bedfellow and seen better days.

In conclusion, even though Shakespeare existed five centuries ago his work has influenced in many ways today. If you read a book, or watch a movie, or if you even go to watch a play you can perceive his unique style. The present has learned a lot from the past and William Shakespeare is an example. He had the art of captivating people during his time but also, he has mesmerized people today. William Shakespeare has become an important individual around the entire world.

- Poojitha Setty  
Third Year  
EEE A



## Dharamshala

Dharamshala is a true global village located in the Kangra Valley, state of Himachal Pradesh at an average height of 1475 meters above sea level. Apart from being a scenic beauty this place also has historical significance attached to it.

During the British Raj, this place was annexed by the British Colonizers as a subsidiary cantonment for their troops.

In 1905 the Kangra valley suffered a major earthquake which made the Britishers decided against making Dharamshala the summer capital of India and went with Shimla instead.

The heart of the Tibetan community of Dharamshala is the town of McLeod Ganj lying in the upper reaches of the city it is famous worldwide for the presence of Dalai Lama. On 29 April 1959, the 14th Dalai Lama (Tenzin Gyatso) established the Tibetan exile administration in the



north Indian hill station of Missouri. Following the 1959 Tibetan uprising, there was an influx of Tibetan refugees who followed the 14th Dalai Lama. His presence and the Tibetan population have made Dharamshala a destination for Indian and foreign tourists, McLeod Ganj is a small but bustling international center which blends flavors of Lhasa with elements of a modern Euro-American town in the setting of an Indian shepherds' village.

Dharamshala attracts a diverse assortment of people from all corners of the earth who come to study and meditate and to make contributions to the Tibetan cause.

Some travelers come just for the scenic beauty, but those who take the time to explore under the surface are usually transformed by their experiences. Many return home to enjoy life more deeply and positively transform their own lives and communities.

The best time to visit Dharamshala is during the month of March to about mid-July. Summers are said to be very welcoming during this time. The 232 temperatures range somewhere between 22°C and 35°C. It's also the ideal time for trekking tours on scenic trails dotted with flowers in full bloom.

- Chetana Reddy  
First Year  
ECE B



## Mother Universe Part 1

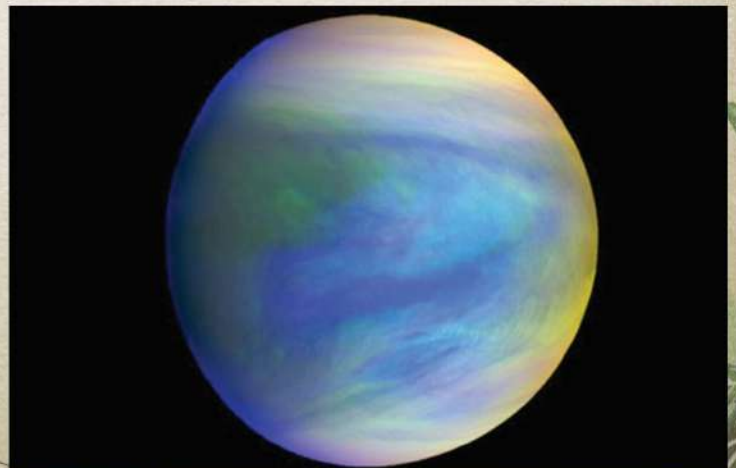
The age of the known universe, according to the science we know, is 13.77 billion years. It is ever-expanding at an exponential rate with the galaxies moving apart from each other. There is void, there are superclusters, and there is dark matter. This universe is invisibly present, invariably different and inconspicuously attractive. If this planet is Mother Earth, then this cosmos is Mother Universe.

Earth is the only planet that sustains life, at least as far as the humans know. It is comfortable, safe and supportive. There are a lot of secrets on this very planet that any human is yet to discover. But life can imagine, explore and set its limits that don't stop with the planet's boundaries. So let's take a space tour travelling through the darkness and silence of the universe alone to understand the beauty of the systems that need not be. Let's explore The Solar System.

Leaving the homeland is always a dangerous feat, and here we are diving into the depths of darkness towards the source of light, The Sun.

In our journey towards the giant, our first stop is something beautiful. **VENUS**, named after the Roman goddess of love and beauty is undoubtedly the brightest star in the night sky from home. The twin planet is called the morning star because it says hello during sunrise and as the evening star as it bids goodnight at dusk. Venus is as beautiful as the name suggests. Human beings, in their contemporary space exploration, sent their first spacecraft to Venus in 1966 which crash-landed on the surface, becoming the first human toy to reach another planet, and with time we learnt the bitter truth.

The angel is angry about something. It is raging with volcanos, lava and an atmosphere filled with carbon dioxide which is so dense that it only holds the heat from the sun and never lets it out. Though it is the second planet from the sun, it is the hottest planet in the solar system. What amuses me is that the immediate neighbour that we named after beauty and love is raging with anger while its surface is above 900 degrees. Global Warming! Probably that is Earth's future!





Oh! Venus was hot, but we can't end our journey just yet. We have just begun. Travelling further through a vacuum that once we believed for years that it was ether, we reached Mercury.

**MERCURY** is the first planet from the Sun. Its core is made of iron in a molten state and hence is the reason for its high gravitational pull compared to its size. Scientists believe that it got collided with space dust otherwise called meteorites that took a chunk out of its body. Mercury is like a forgotten warrior with dents from the space dust, and nothing left for its glory. No moons, no atmosphere, yet holds itself up from burning in the Sun. Every forgotten warrior has two faces, and so does Mercury. The side that faces the Sun is as hot as 800 degrees, and the other side is as cold as -300 degrees.

We age quickly on Mercury, hypothetically if we survive, as a year there is as short as 81 days. Not so hostile for any sort of life, so we move on further towards brightness.

The journey is not as dark as before now, it seems brighter in the dark sky, and a lot warmer too. Wait, I can listen to the horses, many horses. Is that a chariot?



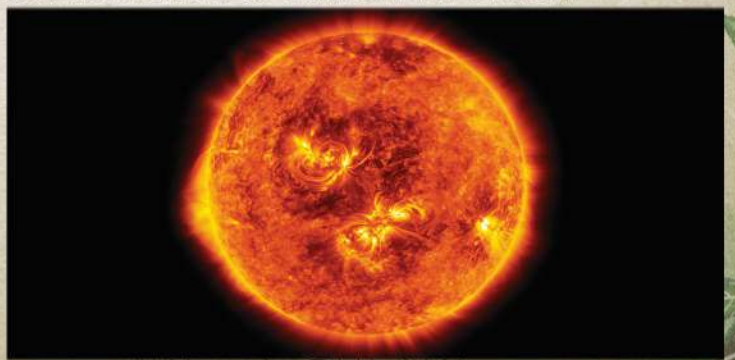
Oh yes, it is! The Sun is riding on his chariot with seven horses. He is no angel, no titan, and no forgotten warrior. He is God.

But wait, he is just made of gases, a lot of them condensed in high temperatures yielding a tremendous amount of gravitational pull and some electric and magnetic current just under its surface. How can chemicals, electricity and magnetism be God?

Well, Chemicals, Electricity and Magnetism are keeping us alive. Who cares if he has a horse or a chariot? So chemicals and electricity are God.

And God is the reason for life.

10000 degrees on the surface itself. Imagine the temperature at his core. The three states of matter, Newton's Laws of motion, and the Plank's constant are all violated there. This sucker is not just a burning ball of gasses, he is the contradiction to human invention.





4.5 billion years he lived and sustained life. What's from now is he completing his hydrogen fuel and start nuclear fusion with Helium to form Carbon. He is going to bloat up turning red like a pregnant woman, eating the first 4 planets.

Oh! Earth is third!

Oh! God is going to eat our home!

Oh! We need contingency!

Oh! We need to turn away to another side. There is no home this side.



Where do we go? What do we do?  
Where are we destined to? What are we?  
Why are we? When are we? Who are we?

Anyway, we have 4.5 billion years to figure that out. Sun is not an immediate danger, but somehow Earth is not hostile enough as before. We know why but let's not get there. We just need a new home.

Oh! There is something red on the other side. What is it?

- Sampreeth A PL  
Third Year  
CSE D



# POEMS

## Girl In Pink

*Pretty in pink  
with a little stuck,  
for dare I not think  
what stereotypes stink?*

*Plunging myself into darkness  
dressed in pink head to toe,  
I'm just an object ready to die  
witnessing bitterness,*

*present in disgrace  
clenching for peace,  
sinking in sorrowness  
my heart aches,*

*body with bruises  
tired running behind truth,  
awaiting for a call of death  
amidst the joy that is seldom  
Here's my soul liberating for freedom.*



*- Rajshri Simhadri  
First Year  
EEE A*



## I Fell

*I fell hard  
So hard,  
My confidence shattered,  
pieces of my self esteem  
are now countless and scattered,  
some out of reach,  
And some even out of sight.  
As I slowly lose faith,  
I wonder if I can ever walk again.  
Will I ever be able to stand tall?  
As I attempt to make way through this foggy chaos,  
I stumble upon the mirror,  
As I raise my head to look at the reflection,  
The one that riles me up with rage  
that I've never known,  
something hit me hard  
I, am still me,  
I, am still the same,  
I, still behold the same  
abilities  
I had prior to falling in this so-called ditch.  
Instead of hitting the rewind button on my life,  
I move forward, I rise,  
For now, I've realized-  
I pull my own strings and  
I make my own choices  
And today I have decided to be a star,  
shining bright in this dark world,  
I will be a one- human army,  
independent and confident,  
Unlike the moon.*



- ACR  
First Year  
ECE B



## Chaos

Blood for a reason,  
shed for a season.  
War in war out,  
warriors scream and shout  
Gods fell  
beneath the burning hell.  
Seeds of hatred deeply sown,  
hidden demons deadly moan.  
The Wretched rejoiced in the dark,  
left no trace or a mark,  
Truth was burned  
and tables were turned.



- Ashish Katiwarapu  
First Year  
J T C

## Praise

Known me before I was born.  
Engraved me before I was formed  
Delighted me before I was dismayed.  
Loved me before I was known.  
Caught me before I could fall.  
Walked with me before I could step.  
Sacrificed his life before I could  
Realize...  
And finally knowing him my tongue  
Couldn't hold from saying  
The Long I Be I Praise Thee.



- Shravya Giddi  
Second Year  
CSE D



# **Your Lifebok**

*Never let the pages of your story, be written by someone else.*

*Just go with the flow and create memories in your life.*

*Don't ruin your life thinking about the mistakes you made in the past.*

*Remember, you are the pacifier of your own journey.*

*Explore your passion, dreams and interests.*

*Strive till they come true.*

*Be the real you till the very end.*

*Enjoy your everyday life because who knows if you will get another day to live!*



*- M D Omer  
Second Year  
Civil A*

## **Questions!!!**

*Questions Questions Questions..*

*They are always there, obviously there.*

*Questions make life chunks..*

*Breaking you, Bumping you,*

*Banding you, Boosting you.*

*"Why you??" Might stamp you but*

*"Why not me??" Will lamp you!!*



*So in your life the way you frame the 'WH' questions is all that matters.*

*Project Positivity*

*Proliferate Potency*

*Yet mustn't miss minding the minimising of mischievous moments moving into our lives.*

*Well!!what I would say if I didn't question myself 'why not write something' I would write the article??*

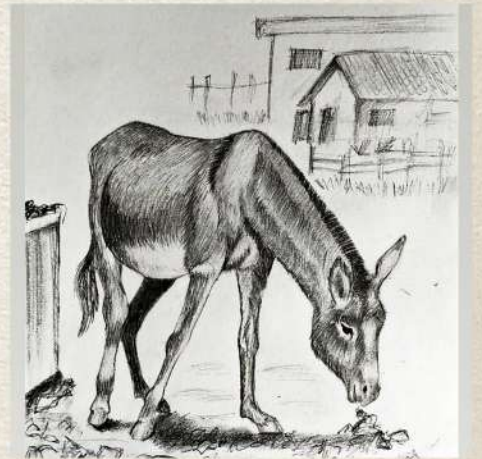
*- Jhanavi  
First Year  
IT B*



# ARTS



*Charith Chandra*  
*Second Year*  
*CSE F*



*Shravya Giddi*  
*Second Year*  
*CSE D*



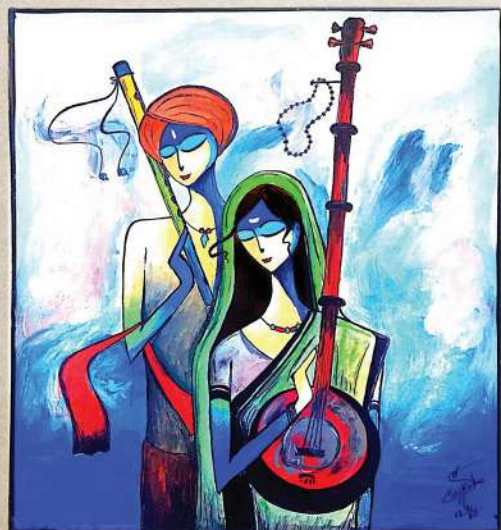
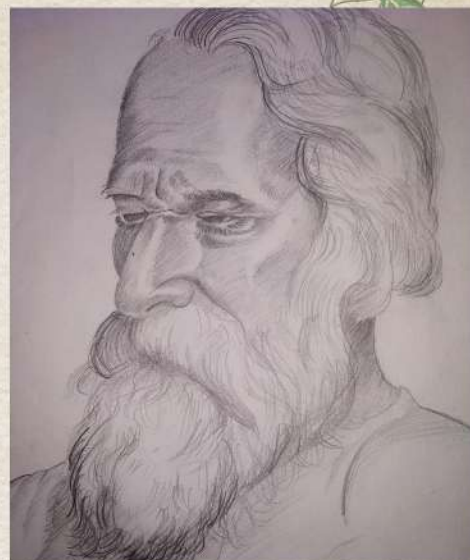
*Nupur Phadke*  
*First Year*  
*Mech A*







*Gaurav Sherla  
Second Year  
I T B*



*Sriram Sai Krishna  
Third Year  
ECE E*



# RIDDLES

- 1) There were three prisoners in certain jail, one of whom had normal sight, one of whom had only one eye, and the third of whom was completely blind. The jailer liked to play tricks on his prisoners, so one day he brought them all three out. He then showed them five hats, three white and two black, which he hid in a bag. From these five hats, he selected three and put one on each of the prisoners' heads. None of the men could see what colour hat he himself wore. The jailer offered freedom to the sighted man, if he could tell him what colour his hat was and to prevent guessing, he threatened execution for a wrong answer. The sighted man could not tell what colour hat he wore and declined to answer. The jailer next offered the same terms to the one-eyed man, who also could not tell what colour hat he wore, and also declined to answer. At this point, the jailer thought his game was done but was delighted when the blind prisoner spoke up and asked if he didn't get a turn? Laughing, the jailer offered the blind man the same terms as the others. The blind prisoner smiled and replied,

I do not need my sight,

I clearly see my hat is \_\_\_\_!

And so he won his freedom. How did the blind prisoner know what colour his hat was? And what colour was it?

- 2) Who makes it, has no need of it  
Who buys it, has no use for it  
Who uses it can neither see nor feel it  
What is it?

- 3) What can travel around the world while staying in a corner

- 4) What is made of water but if you put it into water it will die

- 5) I'm tall when I'm young and I'm short when I'm old .What am I?





## Last month riddle Answer



A need 3 votes...

if A dies, B needs 2 votes

If B dies, C needs 2 votes

If C dies, D need 1 vote.

That means if A, B, C die, D need 1 vote and he will vote for himself. E's vote wouldn't matter because D will take 100% and vote for himself.

That means no matter what E won't get a single rupee if A, B, C dies.

So, when knows D has a chance to get 100%, he will never vote to whatever A proposes. So A need not give anything to D because D will never vote anyone.

A, even if he gives 1 coin to E, he will vote because E has no chance otherwise. So give 1 coin to E and get one vote.

Now A has his own vote and E's vote. He still needs one vote to get the majority.

If you consider B, he needs 2 votes to get the majority. If A dies, he will take 99 and give E - 1. E will vote anyway and B votes for himself. So B can get 99 coins so no matter what A gives him, he will reject.

So need not give anything to B

In C's case, C can get 99 coins if he gives 1 coin to E. But that can't happen. Because if A die, B will give E 1 coin and take 99 coins and C will get none. So, B can't get seniority if C has to get any coins.

So A will give one coin to C, 1 to E and take 98





# **Fictitious Series**

**By Sampreeth Sharma A.P.I**



# D-E-A-D

**31st December 2018,  
6:13 A.M.,  
Necklace Road.**

The media was all over the city. The red hot topic, after the Police database hack was that there were two dead bodies found within a 5-kilometre radius and a car blasted and burnt in the middle of Necklace road. In Balaji Lodge was found Asif's body with his brains blasted and walls sprayed with his blood, and Shami was found dead near Lumbini Park with a note on his body that reads everything is a part of the Bigger Plan.

Hyderabad knew it was in danger. The government pressurized, the police preoccupied and the nation shocked. The roads were noisy, unlike every sunrise at the necklace road. The news reporters were covering the inverted car that was set on fire last night while the local SI comes out of the restricted parameter plucking his hand gloves out. The reporters quickly pounce onto him to shoot questions about the exploded car.

"Any leads sir about who might be behind this?" asks a reporter.

"We just got the reports from the forensic and they recovered the number from the number plate and when we ran it in our database, we found it to be one of our constables' service vehicle." says a tensed, sweating, and gulping SI, Mr Veerabhadram.

"If it's one of the constables' vehicle, why didn't you know it all this time? Where is the constable now?" shoots the same reporter from TV 8.

"And that is exactly what we are investigating. Ram Mohana Kannayya was with us when we busted Mohammad Shami from the neighborhood at 9.30 P.M., suspecting his to be the local dealer slash supplier. On the way back, it was a tactical decision to reroute him in disguise to avoid unexpected guests or disturbances. So I ordered Kannayya to do the job. Since then, we had no contact with him until we came to know about the car blast."





"A tactical decision to reroute a suspected drug dealer with no armed assistance. Can you explain the thought process there, sir?"

The media was too much for Veerabhadram to handle. He didn't have answers. There was just one voice inside his head, and it was barking at him. *What were you thinking last night? And best of luck answering to higher authorities.*

To rupture the wound, a journalist points out asking, "Who was the drug dealer you busted yesterday? Shami right? Is he the same Shami that was found dead near Lumbini Park?"

Veerabhadram had no clue. He stood there like a buffoon waiting for his audience to leave after a disastrous show.

**31st December 2018,  
4:02 A.M.,  
Osmania Hospital.**

Irfan was in the general waiting hall with his hands folded. He kept staring at the TV screen that drones about the dead bodies found in the city. Asif and Shami were a part of the plan that Irfan and Karim made and both were dead. He received no call from Karim about the deaths of the fellow Jihadis and was fuming with rage looking at the news. But he knew, there had to be a blood sacrifice he just hadn't expected it to be this soon.

He is in the hospital to meet Dr Muhammad Zakariya as a police officer who goes by the name Abdul Razzaq. He was creating a false identity under the name of a police officer, who also happened to be the head of Operation Jack Rabbit. He is the angel with the glow and the stench that no one could smell.

"Mr Razzaq?" called the nurse from behind.

"Yes, that's me," replied Irfan with a broad, pleasant, calm, and undeniably pleasing smile "is Dr Zakariya ready?"

"He just completed the surgery for an emergency and he wishes to meet you at his office. If you don't mind, would you wait near his office while he dresses up?"

Irfan puts on a smile, "Sure, ma'am."

The nurse guides him to the office room and says, "Please wait here, Mr Razzaq. I will inform Mr Zakariya about your arrival."

"No problem, ma'am, it has only been 6 hours", satires Irfan with the melting and convincing grin brightening up his face.

"I am so sorry, sir. I will be right back", she says and rushes into the doctor's cabin.





Irfan puts down his smile as she leaves and begins to think about the death of two mates and Karim being the only one out there dealing with Sharma and Kannayya. He pokes himself with his right index finger on his thigh trying to relieve his frustration like it is his fidgeting habit. As he continues to poke deeper that could already pierce the skin and create a rupture sensation, he hears a male voice.

"Mr Abdul Razzak?"

Irfan loosens up and comes back to senses. He stands up to shake his hands with a broad smile greeting the other person saying, "Yes that's m-" and stops himself as he sees the real Abdul Razzaq, the Chief of Operation Jack Rabbit with a similar broad smile that was happy enough to raise his pulse up to 120.

"Nice meeting you Mr. -- Abdul Razzaq, is it?"

Irfan ran out of words. He looks around and learns that he has been surrounded and so, collapses on the same chair he was sitting.

Abdul Razzaq sits to his left.

"It was a genius of a plan Irfan. Meeting Dr Zakaria using my alias. But I would still ask you, why would you do that?"

Irfan breaths sharply but doesn't reply.

"I guess we have a lot of time to figure that out, don't we?"

Irfan remains silent with a sharp look staring at nothing.

"Hey, buddy let me tell you something. The last 5-6 hours were very shocking. To boost you up, Krishnamachari Sharma was shot and he bled to death." Irfan looks at Razzaq with bright eyes. "Don't worry bud, in self-defense, he killed Asif. Oh! You should see the blood on the floor. It was, devastating" Razzaq pauses and resumes.

"And Shami was killed by Kannayya in, again, dramatic situations. Kannayya met with an accident and was taken to a hospital where he is receiving treatment right now. I hope he pulls it together. Buddy, I tell you all this just for you to know, your plan with your monkey mates to destroy the city or whatever and faking a hack of the Police Database, well, time up for partying. Your mates are dead and you are caught. There is no way out of this. Oh! You are so screwed."



Irfan calmly replies, " It is good to see you being so positive about everything." he pulls up his smile back, "All the best officer with your helper dogs to stop what is going to be... poetic in a few hours."

"Yeah, buddy thank you for your wishes. But let me tell you tomorrow's headlines; four terrorists found dead and their little punk plan to bomb the city was terminated. Yes, you heard it right! Four terrorists. We know Karim turned rogue and don't worry, he is under control as well! How awesome would those headlines be, huh?"



Irfan stands up. The battalion point the guns at him in an alert. He walks towards Razzaq who stands up slowly and puts his hands indicating to arrest him. Razzaq takes out the handcuffs and locks him up when Irfan goes to Razzaq's ear and whispers, "Lancer Vine, the most wanted International Criminal, a drug kingpin is a hoax created by the Indian government and Intelligence and what not... to have the deepest undercover cop ever. What a cover-up, sir! You create your best weapon and make it illegal so that those who do illegal stuff would use it and you would know who all used it. Wow! How about The Indian Government, Defense, and Intelligence involved with the underworld and drugs be for a headline tomorrow? Or how about The Indian Government, Defense, and Intelligence ENCOURAGING the underworld and drugs be?"

Razzaq gulps his saliva, remains silent, and signs his team to take him to custody. Irfan was dragged from that place as he resisted and shouted that he grabbed the patients and other medical staff's attention. Razzaq turns towards his guy, the operating officer Abhimanyu Chaturvedi, pursing his lips disgusted while shaking his head in disapproval about Irfan going to be a problem.

"Arrange a call with the Prime Minister's office first thing in the morning, would ya?"

Abhimanyu looks very closely and stops himself from asking more about it noticing Razzaq looking confused already and agrees to do so by giving a stiff nod.

"We waited for one and a half-hour outside this hospital waiting for Irfan to make his move and he waited for 6 hours to meet a doctor. What's his name again? Zaheer khan?"

"Zakariya, Mohammad Zakariya, sir."

"Ah yes... Why did he want to meet him again?"

Chaturvedi didn't have an answer, but he knew what he had to do, and so he informs his team to push into Zakaria's cabin. Meanwhile, Razzaq continues to hiss with sharp eyes scratching his head about Irfan and Lancer Vine problem.

**31st December 2018,  
1:54 A.M.,  
Karim's Safe House.**



Karim turns off his television that was persisting about the two dead bodies, car blast, and the police database hacks all which took place the previous night. He still is in a shock that Shami got killed when he was just around but the killer didn't try to attack him.

*Everything is a part of The Bigger Plan.*

He understands this was a message from Lancer vine, of course, he had been on Lancer Vine's case for half a decade and knows that it is his saying. Karim finds the situation uncomfortable and suffocating that the noise made by fan also disturb him. He looks sleep-deprived and tired. All he wanted was to understand how, and why was Lancer Vine, and International Criminal that he had been looking for, is involved in Operation Jack-Rabbit.



What also was running behind his mind like a daemon thread in a process was Sudhamsu coming back from dead and answering Asif's call. All Karim knew was that Sudhamsu and Sampreeth, his two buddies from childhood, died in the Mumbai terror attacks along with his fiancée, Zubeena Khan.

"Let me get the timeline straight. It all goes back to 2008. Sudhamsu died in 2008! Zubeena... and Sampreeth died there too. Sharma disappeared and went undercover since then. I met Irfan, Shami, and Asif. I wanted to meet Lancer Vine, to run the world along with him, and so I took up his case. Had Asif work in his organization to contact him. All Asif got was a person over the phone who gives him work, but never met any Lancer Vine! Every strategic counter plan we got to corner him, he was always 100 steps ahead of us. And all of a sudden, Sharma pops up after ten years for Operation Jack-Rabbit to work with me with a little helper monkey of his. I wanted Asif to capture Sharma to discuss with him about all his little, dirty secrets. And out of nowhere Sudhamsu kills Asif, Shami gets shot, and Kannaya's dead body is not found in the car. And I get a note from Lancer Vine indirectly telling me to well die. How did he know where I was any way or what I am doing? And who are you Sudhamsu? A Ghost? A devil? Lancer Vine? Who the hell are you?"

Karim stops recording his voice over the phone and plays to hear it over and over again till he finds out what could lead him to any sort of clue that could answer his questions.

He finds it useless and feels like he lost the war already. He approaches his drawer and pulls it out to see a P92, some bullet magazines, and a packet with white powder. He grabs it out and takes 2 shots of it. All of a sudden, he could feel the ecstasy, the relief that he was waiting for. He plays his recording again as he sleeps over the bed, with his brain losing control over its senses, and eyes shutting down Godspeed.

*Sudhamsu died in 2008.  
Sharma pops up after 10 years.  
What are you Sudhamsu? A ghost? A devil?  
Lancer Vine?  
Know his little and dirty secrets.*

He wakes up. Like he had a nightmare. Like he was held underwater. Like he wanted to breathe. Like it was not suffocating anymore. Like he got his answers. Like he knew what he was going to do.

He reached his laptop and hurriedly with shivering hands opened a lot of windows that were encrypted in Chinese. He seemed like he understood everything. Karim is a cybersecurity genius. And so he knows what exactly it takes to hack a police database. He did it once a few hours ago and leaked one page out of it and goes through the database again as if he was searching for something in particular rather than confidential papers and security information.

He surfed through the files for 87 minutes with his head weighing a ton and his eyes as red as a rose and found the file he was looking for.





## LANCER VINE

What was in the file was the photo of the international drug kingpin and his past. Karim went into a moment of disbelief. The truth he learned was not something he expected. He began to laugh like a maniac who lost his nut. He just couldn't sit tight anymore.

He writes an algorithm to schedule publishing the news about Lancer Vine at 1.30 P.M. because he wanted to see India's reaction to that with his eyes. He knew he would fall asleep at any moment as his head couldn't take it anymore so he decides to call Irfan with a little energy left in him.

What was in the file was the photo of the international drug kingpin and his past. Karim went into a moment of disbelief. The truth he learned was not something he expected. He began to laugh like a maniac who lost his nut. He just couldn't sit tight anymore.

"Irfan, Lancer Vine is an Indian Undercover agent and the government supports and encourages to keep track of all other criminals in the country."

"What are you talking about, Karim?"

Karim lost it. He dropped the phone and goes into trans.

Karim's phone died out of battery like his body. He was lying flat like he is dead. Not even an explosion 2 streets away could wake him up.

That phone call left Irfan guessing about Lancer Vine but had no information about Asif and Shami other than those he watch in the news.

**31st December 2018,  
12:44 A.M.,  
Chakri's Godown.**

Sudhamsu quickly gets over Sharma's loss and puts down all the happenings like a mind map hoping the plan he made out of it works. Chakraborty looks at all the papers and the connections and understands not to interfere with Sudhamsu. Sudhamsu takes his cell out and makes a call to ask the person on the call to connect to Abdul Razzaq.

An international criminal's dissimulated partner calls a police officer leading a manhunt to stop the bomb blasts. Funny times in this world!

The call gets connected.

"Sir, this is Alpha Goodguy 2 speaking"

Razzaq remains silent for a moment. Sudhamsu could hear a lot of disturbances over the phone that slowly faded away.

"Alpha-Goodguy-2... Sudhamsu" replied Razzaq.





"Sir, Karim went untraceable again and looks like the credibility of the hack and the bomb is unfortunately positive."

"Sudha, do you have a piece of good news for me buddy? And also can you explain modern art in room number 402?"

"Sir I know there are a lot of questions. But first, Sharma is dead. His driver kannayya was saved by Sidharth as he was following Karim at that time but he is critical. He needs your help out there."

"Wait wait wait... Sharma is dead!? Like, D-E-A-D?"

"You know there wouldn't be a person who would be more affected than I am. But Karim, he is up to something big. We lost all our agents in Operation Jack-Rabbit, sir."

"You knew the name of the operation? Wow."

"Sir!"

"Alright Sudha, what do you suggest now?"

"The immediate danger we have is in Irfan, sir."

"Uff... tell me about him."

"My guesses are no better than yours. He is in Osmania Hospital and been there for more than 3 hours now."



"A hospital? Why is he in a hospital?"

"Maybe one of the four bombs is there. We don't know. Lancer Vine and I will take care of Karim somehow. But we need you to be there, sir."

"Alright. I'll do what I got to do. Be careful with Karim."

"Sure, sir."

"Also, Lancer Vine knows about this plan?"

"Lancer Vine knows what he has to know, sir. He is Lancer Vine after all."

"He is Lancer Vine after all!"

"Alpha-Goodguy 2 signing off, sir."

"Take care, Sudha."

**30th December 2018,**

**11:58 P.M.,**

**Secunderabad Railway Station.**

Lancer Vine and Sidharth stop across the road from Balaji Lodge after killing Shami near Lumbini Park half an hour ago. They needed to pack their bags, guns, and make sure they left no fingerprints in room 402 but they realized they are already late. The police have closed the parameter, traffic was diverted and the media was all over but Lancer Vine was determined to get his stuff out.



"Are you sure about going in with that security?" asks an innocent Sidharth.

"We can't leave our traces in the room beside the room where they found the dead body" replies a thinking Lancer Vine.

"So how do we go in now?"

Lancer Vine remains silent. A million simulations were running in his brain and that is not exaggerating.

Assuming Lancer Vine didn't hear him in the first attempt, Sidharth repeats. "How do we go in now?"

"We go in, straight."

Sidharth didn't understand the plan but in Lancer Vine he trusts and so follows him, crosses the road towards the lodge. The police constable stops them before entering the parameter.

"Woah Woah where are you going Mr Lightspeed?"

Lancer Vine remains silent. Sidharth picks up, saying "We have our important luggage in the lodge. We were not here before whatever happened. People are saying there is a dead body in there. Is that true, sir?"

"Get the hell out of here before I press charges on you."

"No- No sir, please don't do that, we would be back in a flash. We don't want to get into trouble."

"In a count of one, I need you both to leave."

Sidharth ran out of words and Lancer Vine doesn't speak when he need not.

"One", says the officer taking his lathi out just then Abdul Razzaq shows up out of the hotel room and notices Lancer Vine at the parameter.

"Hey", he shouts, "let them in."

"Sir, they say they came to pick their baggage!"

"I'm sorry buddy but what did I just tell you? Just let them in."

The constable is at a loss and quietly allows them into the lodge.

31 Police officers and there was Lancer Vine among them.

They enter 402 and quickly remove every trace that could lead the investigation towards them. They had two big bags to come out with. One filled with Guns and others with photographs, videotapes, laptops, and hard disks. They clear all the taps, knobs, and hand rests to erase their fingerprints and in 20 minutes they came out clean as professional thieves do.

While coming down, something strikes Lancer Vine. He pulls Sidharth back and asks, "Which room was Sharma's?"





"Sharma was with Karim in this lodge right! They were in room 107 I guess."

"Are you sure?"

"Yes."

"Then we need to sweep that room as well."

"Why! Why should we do that?"

"Operation Jack-Rabbit is a secret operation. If they find guns and maps in the same lodge, that would grab unnecessary attention. And where is Sharma? Solving the case? No right! He is dead. And where is he? Do you want the police to come knocking our doors?"



Sidharth understood the severity of leaving 107 untouched and so accepts to join Lancer Vine and sneak in without anyone noticing.

They packed everything in the room and came out with 2 additional bags. They had a lot of eyes on them but were confident no one would touch them as long as Abdul Razzaq is around. And luck doesn't always favor the brave. Abdul Razzaq got a call from Sudhamsu and to talk to him, he goes away from people to avoid noise and other police overhearing him.

They walk slowly towards the door hoping no one to stop them. As they exit the parameter, they had a huge sigh of relief and just then the constable calls them back.

"4 huge bags huh? What is in it?"

The two don't open their mouths but the constable remembers his boss's words to leave them and so lets them go even if they didn't answer. But he stops them again and calls Lancer Vine back. He doesn't understand why he was being called but walks towards him slowly.

"You didn't talk at all. What's your name?"

Lancer Vine doesn't open his mouth.

"You seem like a gangster to me. I asked you what your name is."

Does Lancer Vine say Lancer Vine? No. And so he says "Sampreeth. Sampreeth is my name."

"Do you have an ID on you, Sampreeth?"

Lancer sighs and shows his ID with disinterest.

"None of my business but I still wonder. Four bags? For two of you? That too it is so urgent that you go into a crime scene and take it? What is in it?" the constable asks with an evil grin on his face.

"You are right" Lancer Vine replies, "It is none of your business."



**31st December 2018,  
1:12 A.M.,  
Secunderabad Railway Station.**

Lancer Vine and Sidharth settle in their car and Sidharth takes the wheel.

Across the road is Abdul Razzaq talking to Sudhamsu over the phone.

"Also, Lancer Vine knows about this plan?"

"Lancer Vine knows what he has to know, sir. He is Lancer Vine after all."

"He is Lancer Vine after all!"



As he speaks these lines Lancer Vine's car drives by and Abdul Razzaq notices it.

In the car is absolute silence and to break it Sidharth asks Lancer Vine if Sampreeth was his real name.

Lancer Vine looks least interested in answering that question as he loses himself staring outside the window.

"For that matter, my real name is not Sidharth" he continues awaiting an answer from him.

Lancer Vine gives him a look to stop pressing on that question and then looks away.

"Alright! Alright! But it is really weird you know. It was raining so badly when I saved Kannayya from the car blast and when we went to kill Shami but now, one hour later, it is as clear as summer. I wonder where the rain went!" exclaims Sidharth.

"My real name is Sampreeth" replies Lancer Vine.





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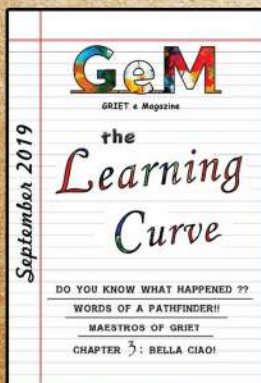
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*“Live in each season as it passes;  
breathe the air, drink the drink, taste the fruit,  
and resign yourself to the influence of the Earth.”*

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