



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY
5 KM STONE, DELHI MEERUT ROAD, GHAZIABAD



BYTES
NOT JUST ONES
AND ZEROS

BYTES

VOLUME:9 ISSUE:6
MAY-JUNE
2020-2021



MISSION

To provide quality education in both theoretical and applied foundations of Computer Science and train students to effectively apply this education to solve real world problems.

To amplify their potential for lifelong high-quality careers and give them a competitive advantage in the challenging global work environment

VISION

To be recognised globally for delivering high quality education in the ever changing field of Computer Science and Engineering, both of value & relevance to the communities we serve.

FOR ANY DETAILS OR QUERY CONTACT:
Bytescse@rkgit.edu.in



OUR TEAM

Faculty Editors

Ms. Nidhi Gupta
(Coordinator)

<Members/>

Mr. Akash Luthra
Ms. Anjali Yadav
Ms. Sonam

Student Mentors

Anukriti Pudmja
4th year

Deepanshu Arya
4th year

Divyansh Prakash
4th year

Kartik Tripathi
4th year

Naman Mishra
4th year

Piyush Kumar
4th year

Pratyush Saxena
4th year

Shruti Jain
4th year

Shwetank Rai
4th year

Student Coordinators

Aditi Singh

3rd year

Ashi Gupta

3rd year

Neetika Tripathi

3rd year

Prakharima Singh

3rd year

Satyarth Singh

3rd year

Saumya Gupta

3rd year

Shambhavi Gupta

3rd year

Student Editorial Board

Aditi Dhal

2nd year

Arushi Srivastava

2nd year

Deep Kushwaha

2nd year

Divyansh Yadav

2nd year

Lavish Sadh

2nd year

Nidhi Tiwari

2nd year

Nitigya Tiwari

2nd year

Pranjal Srivastava

2nd year

Tanya Dwivedi

2nd year

Teena Singh

2nd year

Uddhav Sankhdhar

2nd year



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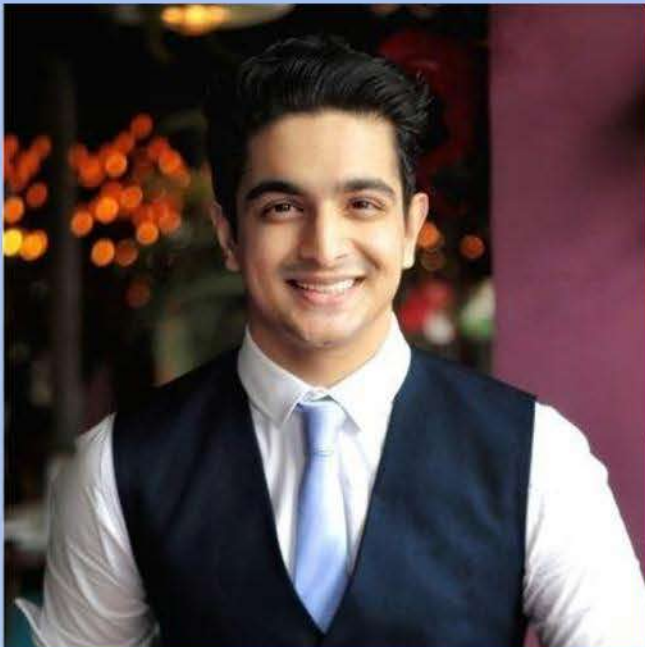
Fun Section

EMINENT PERSONALITY



“ The answers to your questions lie within- you just have to be courageous enough to do, what it takes to live your dreams ”

Ranveer Allahbadia (aka BeerBiceps)



Ranveer Allahbadia, popularly known as BeerBiceps, has **aced the influencer game** with his unique social media content in fitness, lifestyle, entrepreneurship and self-improvement. He has gained **8.5 million+ followers** on his digital platforms over the years. At just 25 he started his business venture Monk Entertainment alongside his friend Viraj Sheth in early 2018 with reputed clients.

Sounds like a breeze but ask Ranveer and he gladly busts the myths surrounding that influencer life. **"I personally put myself through a big grind,"** he tells. "I don't get days off except for Sunday evenings," he adds explaining that during his only day off, he spends time mostly with his family.

Ranveer Allahbadia is among the OG influencers in the Indian social media community. His journey started way back in December 2014, when he took to YouTube to document his own journey of fitness and weight loss. What started as a personal chronicle soon struck a chord with millions of people watching him online and became what is now one of the most popular YouTube fitness channels in the country. His biggest project right now is The Ranveer Show, which is one of brainiest podcast on self-improvement.

His Podcast **"The Ranveer Show"** which is currently No. 1 on **Spotify India** featuring personalities like **Arnold Schwarzenegger, Priyanka Chopra, Glenn McGrath, Brett Lee, Ronnie Screwvala, Siddharth Roy Kapur, Ayushmann Khurana, Luke Coutinho, Gaur Gopal Das, Lakshyaraj Singh (Prince of Udaipur)** and many more.



Intrigued (and also a little overwhelmed) with the kind of day-to-day grind that Ranveer puts himself through, wondering what's it like, living a day as an influencer and what are the challenges involved! The hurdles, as Ranveer calls them to be more internal than external.

"Challenging yourself is the biggest challenge," - BeerBiceps.

You started early in life and wear many hats... what have been your learnings along the way?

"I hear people say you started early, but I feel I am going too slow. I have learnt that you can literally take any business in the world and run it well, as long as you study it properly and are prepared. That has been my biggest learning and it doesn't apply only to business. As long as you start executing things, you will learn on-the-go. **Consistency matters way more than perfection.** "

Awards and Honours

He has successfully won Young Entrepreneur Award 2020 - Business World, Honoured by Femina India 2020 as an Agent of Change (Men who lead by example) along with Akshay Kumar, Virat Kohli, Byju Raveendran, Akash Ambani, Sabyasachi Mukherjee and Ritesh Agarwal, Youth Influencer of the Year 2019 MTV - IWM Digital Awards, Best Fashion Influencer 2019 - Cosmopolitan, Impact 30 under 30 (2020) - Exchange4Media group, PYF International Youth Inspiration of the Year Award 2020 and so on.

TAKEAWAY

- Don't spend too much time planning! Start executing now, you will learn on-the-go.
- Put yourself through a big grind.
- Consistency matters more than perfection.



TECH BYTES



“ The best way to predict the future... is to invent it ”

Cloud Computing

What is Cloud Computing?

The term "cloud computing" refers to the practice of storing and accessing data and computing services via the internet. There is no data stored on your PC. It refers to the availability of computer services such as servers, data storage, networking, databases, and so on, on a demand basis. Cloud



computing's primary goal is to provide numerous users with access to data centres. Data from a distant server can also be accessed.

AWS, Azure, and Google Cloud are all cloud computing services.

Why was Cloud given that name?

The term "Cloud" was coined by network engineers to describe the location of numerous network devices and their interconnection. This network architecture had a cloud-like aspect to it.

Why Cloud Computing?

Data storage has become a priority in all industries as the number of computer and mobile users has increased. Today's large and small organisations rely on their data, and they spend a lot of money to keep it up to date. It demands solid IT support as well as a storage hub. Not every company can afford the hefty costs of in-house IT equipment and backup support. Cloud Computing is a less expensive option for them. Perhaps its efficiency in data storage, calculation, and low maintenance costs has attracted even larger businesses.

Cloud computing reduces the user's hardware and software requirements. Only the cloud computing systems interface software, which can be as simple as a Web browser, is required of the user, and the Cloud network takes care of the rest. We've all used cloud computing at some point, and some of the most popular cloud services we've used or continue to use are mail services like gmail, hotmail, or yahoo, among others. Our data is saved on a cloud server rather than on our machine when we use an e-mail service. Individual users can connect to the cloud system using their own devices, such as a desktop, laptop, or smartphone.

Cloud computing allows small firms to make the most of their limited resources by allowing them access to technologies that were previously unavailable to them. Small businesses may use cloud computing to turn their maintenance costs into profit. **Let's have a look at how?**

In order for an in-house IT server to work well, you must pay close attention and verify that the system is free of faults. And, in the event of a technical malfunction, you are solely accountable; it will involve a great deal of attention, time, and money to rectify. In cloud computing, on the other hand, the service provider assumes full responsibility for any complications or technological issues.

Cloud Computing's Advantages:

Many firms are adopting cloud services because of the potential for cost savings. Cloud computing allows you the flexibility to use services as needed and only pay for what you use. **It is now possible to manage IT operations as**



an outsourced unit without a lot of in-house resources thanks to cloud computing.

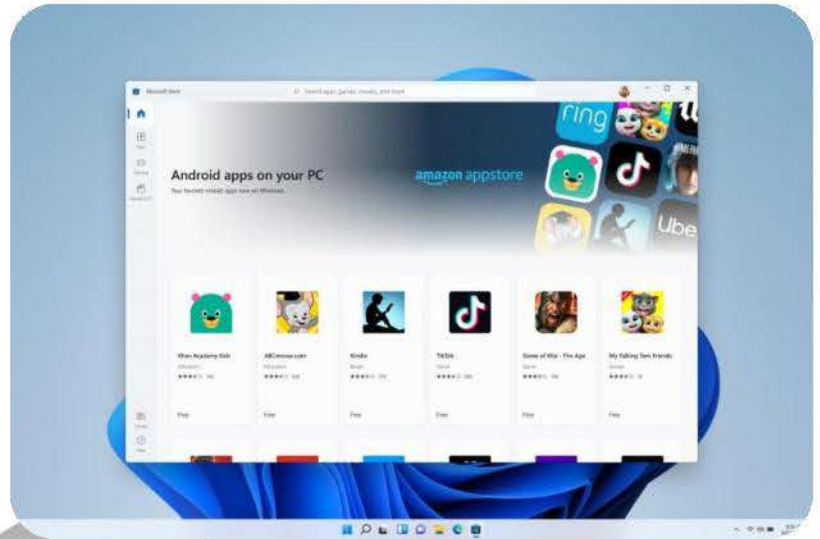
TECH NEWS



“ Our future success is directly proportional to our ability to understand, adopt and integrate new technology into our work ”

Windows 11 will be able to sideload Android apps

Users of Windows 11 will be able to sideload Android apps into the operating system, which appears to be a response to one of our main concerns when Microsoft revealed that Android apps will be available through the Amazon Appstore. This means that whenever Windows 11 is released, you won't have to limit yourself to the Amazon-provided applications.



Google and Jio collaborate on 'ultra-affordable' JioPhone Next

Jio Platforms, an Indian digital company, has teamed up with Google to create the JioPhone Next, a new low-cost smartphone. The Next is designed to assist India's 300 million consumers who are now on 2G networks in upgrading to 4G. It will be released on September 10th in India before being released in other countries at a later date.



Windows 11 is free, but your CPU might not be officially supported

Windows 11 will be available as a free upgrade for Windows 10 customers later this year, but Microsoft has changed its minimum system requirements. Only 8th Gen and subsequent Intel Core CPUs, as well as Apollo Lake and newer Pentium and Celeron processors, will be officially supported by Windows 11.



Lenovo made a wireless charger for your laptop

Lenovo has released the Go Wireless Charging Kit, which allows users to retrofit wireless charging features to a number of laptops. Rather of the more widespread Qi standard, it uses Energy Square's "Power by Contact" technology.



Apple introduces Siri for third-party devices

Siri is now available on third-party devices. HomeKit accessory producers will be able to add Siri voice control into their devices later this year, according to Apple. If the devices are linked to your network, the voice assistant will be directed through a HomePod.



EVENTS



“ All events are just like show that has an end. Nothing remains forever,except the memories, bitter or sweet,or both ”

GUEST LECTURE ON “ORACLE DATABASE ARCHITECTURE & INDUSTRY CHALLENGES”



RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY
5TH KM STONE, DELHI MEERUT ROAD, GHAZIABAD

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GUEST LECTURE ON “ORACLE DATABASE ARCHITECTURE AND INDUSTRY CHALLENGES”

DATE : 29-06-2021 | TIME : 10:00 AM ONWARDS

FACULTY COORDINATORS :
MR. TARACHAND VERMA
MS. GEETANJALI

FOR ALL CSE STUDENTS

REGISTRATION FORM LINK :
<http://forms.gle/YZBx4EzaWqJ5isCa7>

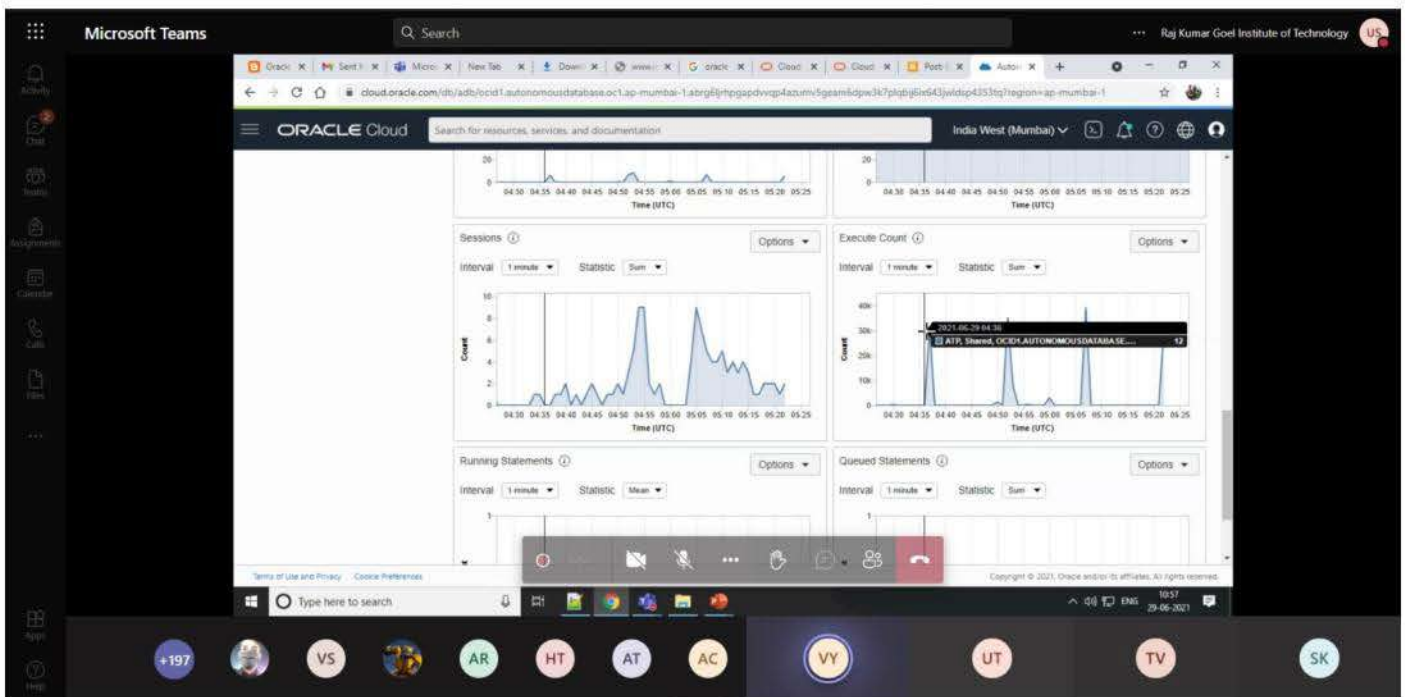


RESOURCE PERSON :
MR. VARUN YADAV
(ORACLE DBA)
Mother Son Sumi

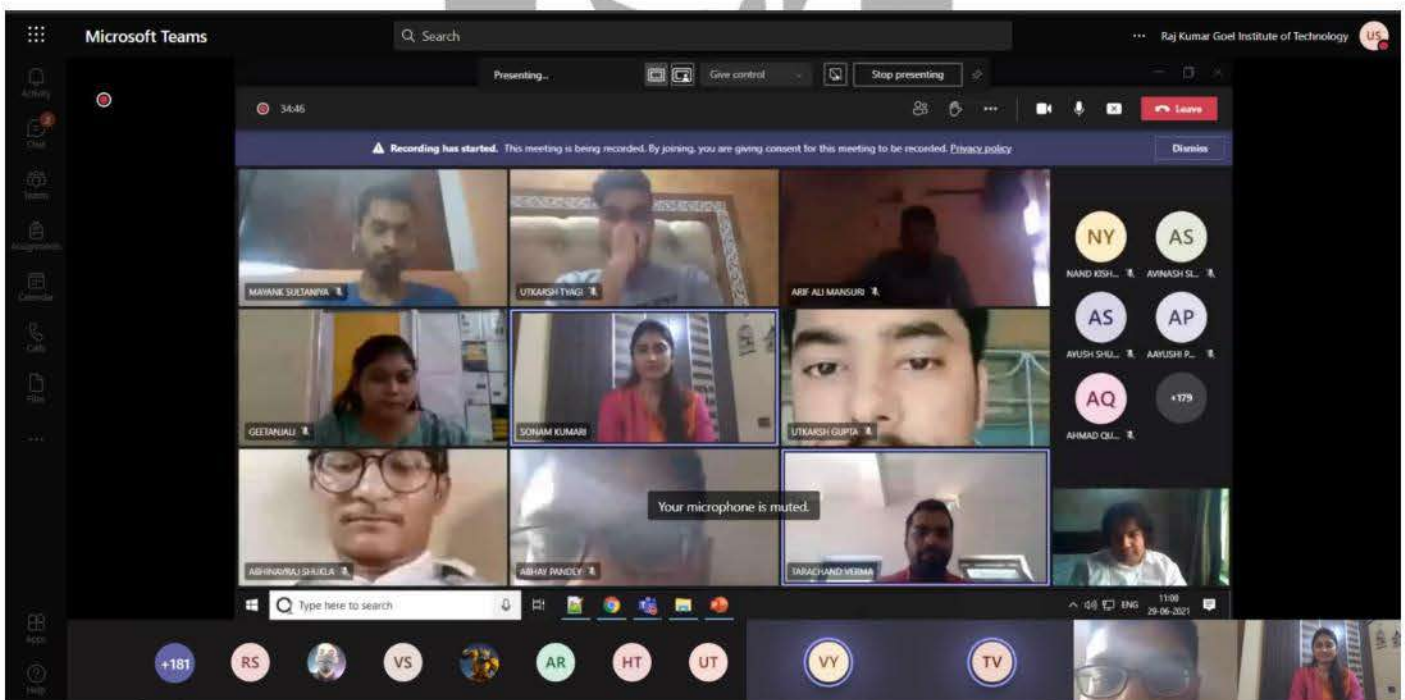
On the 29th of JUNE 2021 Department of Computer Science & Engineering, RKGIT organized a guest lecture by Mr. Varun Yadav, Senior Oracle Database Administrator, MotherSonSumi Infotech & Designs Ltd. (MIND). He has rich experience in the field of data management and analytics and has worked with organizations like XAMPP & Amazon Web services (AWS).

Mr. Varun started the session by highlighting the importance of Database Management systems for the future growth of cloud computing. He elaborated on the various jobs opportunities available for students who have opted for cloud computing. Further, he explained the architecture of ORACLE DATABASE and different types of industrial challenges related to it.

Oracle Cloud is a unified platform that allows businesses to connect all their applications and data, even those that are not Oracle products. Its features include automated processes, integrating and creating applications, and analyzing results.



Based on his experience Mr. Varun enlightened the student about the database management system, grid computing, architecture of ORACLE DATABASE, its requirements on an Enterprise level as well as its small level applications.



It was a very informative and interactive session and the students found it really useful.

ENTREPRENEURSHIP 101

RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY
 5TH KM. STONE, DELHI MEERUT ROAD, GHAZIABAD
 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GUEST LECTURE
Entrepreneurship 101

24th June 2021
 at 03:00 PM

For All Branch Students
 Event Coordinator
 Mr. Manish Gupta

Ajay Mathur
 Director, Global Alliance
 Tata Consultancy Services

www.rkgit.edu.in

Ajay Mathur, Director of Global Alliance Tata Consultancy Services took a guest lecture for the students of RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY on 23rd June 2021. He spoke about entrepreneurship's Emerging Role as a Global Actor. While narrating the emerging role, he shared some interesting facts

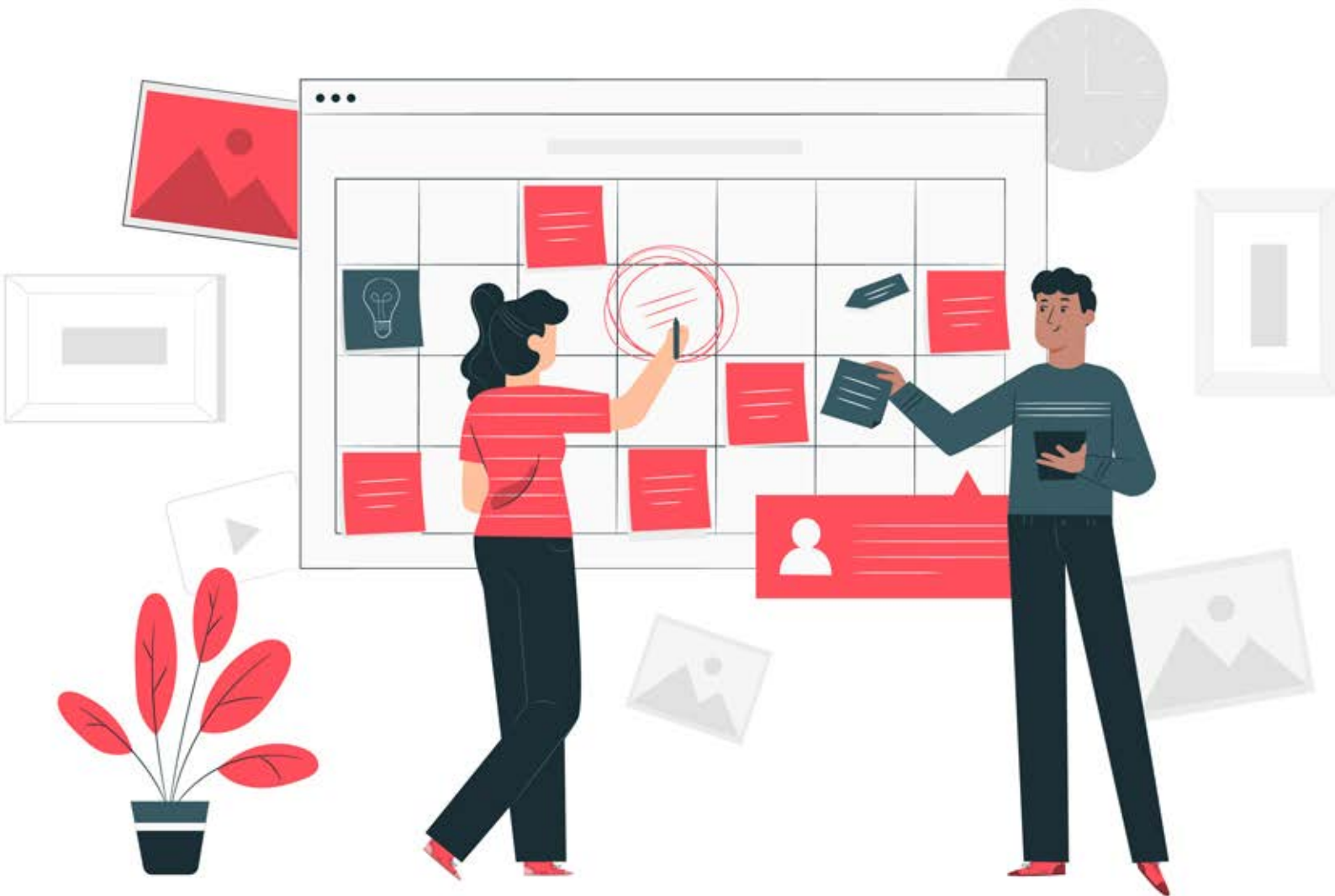
about ENTREPRENEURSHIP and that there are more than 400 million entrepreneurs around the world.

The average founder's salary is less than \$55,000 a year and they're usually working for 66 hours a week. Along with this, he also explained the myths related to entrepreneurship.

The session ended with a question-and-answer session by both the students and faculties.



UPCOMING EVENTS



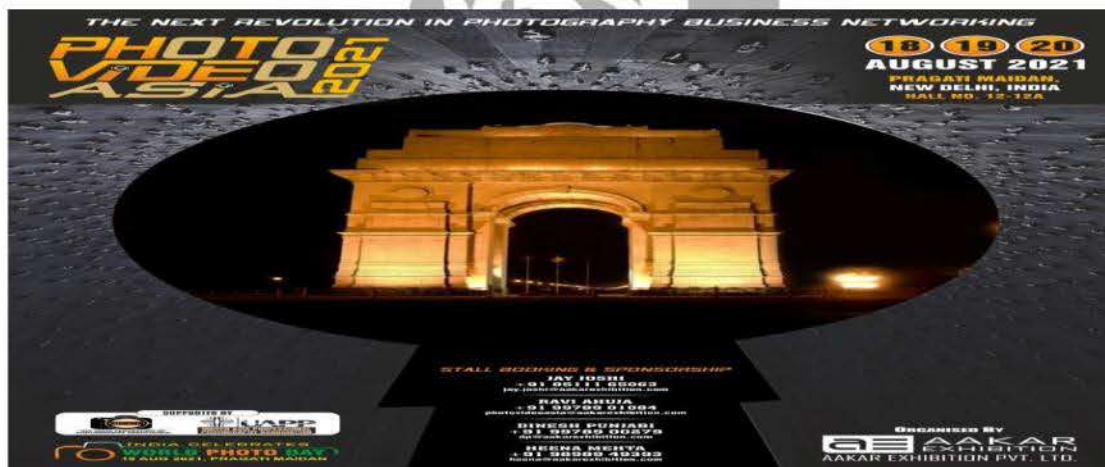
“ Participation gives you experience to upgrade your qualities , qualities makes you perfect to enhance your stardom ”

Photo Video Asia

The Photo Video Asia event is organized for the people like a photographer, videographer, ministries, government agencies etc. which focuses exclusively on the photo and video industries. The exhibition acts as a comprehensive resource for the industry, its members, prospective business visitors and customers by providing in-depth information about the industry and the latest trends influencing its progress.

Highlights

- The Next Revolution in Photography Business Networking
- 3D Image Equipment, Digital Camcoders, Aerial Observation, Film & Film Camera, Camera DSLR Camera
- Video Editing Software, Camera Accessories, cable & accessories, Photo lab equipment, scopes, compact



Date: 18 - 20 Aug 2021

Time: 10:00 AM - 6:00 PM

Venue: Pragati Maidan, New Delhi

Entry Fees: Free Ticket for Industry Professionals
Exhibit Booth Cost Starts from 8500 INR

Link: https://10times.com/photo-video?utm_campaign=social_share&utm_source=listing&social=whatsapp&shareby=fjefegb&ck=0b4d1640b32ebf427ec236d36160af9a

International Conference of The Robotics Society

Advances in Robotics (AIR) is a series of biennial conference organized by The Robotics Society (earlier referred to as Robotics Society of India). The conference aims to create a forum to present and exchange new ideas by researchers and developers from India and abroad working in the fields of robotics and its applications. The conference would have plenary talks, oral and poster presentations, and special industry-oriented sessions.



Date: 30 Jun - 04 Jul 2021

Time: 09:00 AM-06:00 PM

Venue: Indian Institute of Technology Kanpur

ACHIEVEMENTS



“ The level of our achievements is limited only by our imagination and no act of kindness, however small, is ever wasted. ”

Ms. Tanya Dwivedi, CSE, 2nd Year has successfully completed a course on “HTML” from an E-platform SOLOLEARN.



Ms. Shruti Bhardwaj, CSE, 2nd Year has successfully completed a course on “Introduction to Cyber Security” from Cisco Networking Academy.



Ms. Shruti Bhardwaj, CSE, 2nd Year has been awarded with this certificate for participating in the “Microsoft AI Classroom Series.”



Mr. Nitigya Tiwari, CSE, 2nd Year has been awarded with this certificate for participating in the “Coding Orientation Bootcamp” conducted by Coding Blocks.



Mr. Nitigya Tiwari, CSE, 2nd Year has been awarded with this certificate for participating in the “Microsoft AI Classroom Series.”



Ms. Shruti Bhardwaj, CSE, 2nd Year has been awarded with this certificate for participating in the “Cloud Master Class-Discovery Day.”



Ms. Tanya Dwivedi, CSE, 2nd Year has been awarded with this certificate for participating in the “Coding Orientation Bootcamp” conducted by Coding Blocks.



Ms. Tanya Dwivedi, CSE, 2nd Year has been awarded with this certificate for participating in the “Microsoft AI Classroom Series.”



Ms. Ishika Sharma, CSE, 2nd Year has successfully completed a “Three Days Workshop on Chat Bot Design (DO-A-THON)” at Pantech Prolabs Pvt Ltd.



Ms. Ishika Sharma, CSE, 2nd Year has successfully completed a “Three Days Workshop on Flutter” at Pantech Prolabs Pvt Ltd.



Ms. Ishika Sharma, CSE, 2nd Year has been awarded with this certificate for participating in the “Microsoft AI Classroom Series.”



FACULTY CORNER



**“ If you are planning for a year, sow rice;
if you are planning for a decade, plant trees;
if you are planning for a lifetime, educate people ”**



Change your thoughts and you change your world.



Flowers don't tell they show.



Do not fear. The rain is only here to help you grow



The sky belongs to eagles, even during storms.

By-
Tarachand Verma
Assistant Professor

STUDENT'S CORNER



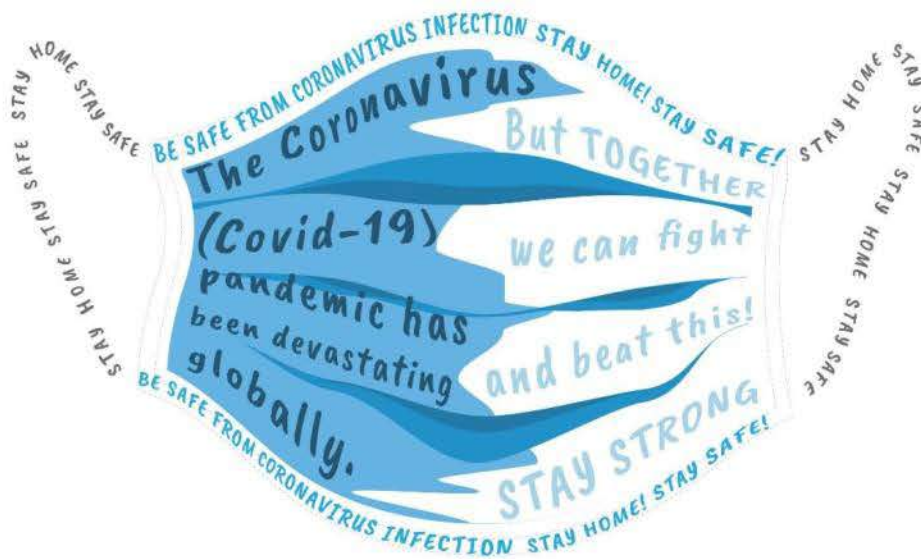
**“ You can't use up creativity.
The more you use, the more you have ”**

I do believe something very magical can happen
when you read a good book.



Sandeep Singh
3rd year, Section – D

Life is short but it is wide. This too shall pass!



Tanya Dwivedi
2nd Year, Section- D

बंदिशे अनेक मेरे पंख ही ना काट दो,
दिखावे की ये जिंदगी ,जीवन नहीं एक भार हो,
जाने दो मुझे जाने दो,
वर्ष क्या ये जिंदगी उसी मकसत पर बार दू,
जाने दो अब जाने दी एक मौका तो देदो,
कुरूक्षेत्र के मैदान में पराक्रम मै भी दिखलाऊं ,
कभी कृष्ण कभी अर्जुन कभी कर्ण कहलाऊं,
जाने दो अब जाने दो पंख मेरे आजाद करो,
कमी नहीं है मुझमें कोई नियति के आगे मै झुका,
लाचार नहीं कमजोर नहीं बस समय का मारा हूं,
उड़ना है इतना दूर कोई छू तक ना पाए,
इंतजार है बस उस दिन का जब पंख मैने आजाद पाए,
उस नभ गगन की भांति अनंतता मै भी दिखल
छोटा ये उपकार करो अपनी धारा तो बदलो,
जाने दो अब जाने दो एक बार बस उड़ जाने दो.

Abha Gupta

2nd year, Section - A

ARE U MISSING WHAT'S NEW



“ Technology unlocks a chance to connect everything together in a new way & is dramatically transforming how we live ”

ELECTROHYDRAULIC ARACHNO-BOT

It's a fast and efficient nature-inspired joints power robotic system that is developed by the team of researchers at the Max Planck Institute for Intelligent Systems in Germany.



This system involves a special type of joint called Spider-inspired Electrohydraulic Soft-actuated Joints (SES joints) to enable its high performance. The SES joints are very small and light joints, made up of thin plastic films filled with liquid dielectric oil. These bots are specially made for small-scale robotic systems of only a few centimetres in size, where the limited space severely restricts the choice of actuator technologies.

SOLAR POWERED SYSTEM-ON-CHIP

Artificial intelligence is the simulation of human intelligence processes by machines. It is used in extremely useful applications, such as predicting a machine's lifetime through its vibrations, monitoring the cardiac activity of patients, and incorporating facial recognition capabilities into video surveillance systems.



The drawbacks of AI-based technology are, it generally requires a lot of power and, in most cases, must be permanently connected to the cloud, raising issues related to data protection, IT security and energy use. To rectify these kinds of problems of AI, CSEM engineers have a new system-on-chip that runs on a small solar cell and executes AI operations at the edge.

It consists of an ASIC chip with a RISC-V processor and two tightly coupled machine-learning accelerators: one for face detection and one for classification.

INTERNSHIPS



“ Study what you love and intern in what you want to do ”

Teaching Assistance (Competitive Coding) work from home job/internship at CipherSchools

Teaching Assistance (Competitive Coding)

CipherSchools



Work From Home

START DATE

Immediately

DURATION

1 Months

STIPEND

4000-7000/month

APPLY BY

19 july' 21

Internship

Skills required

Data structures

Who can apply

Only those candidates can apply who:

1. are available for the work from home job/internship
2. can start the work from home job/internship between 5th Jun'21 and 10th Jul'21
3. are available for duration of 1 month
4. have relevant skills and interests

* Women wanting to start/restart their career can also apply.

Perks

Certificate

Letter of recommendation

Flexible work hours

5 days a week

Number of openings

5

Link: <https://internshala.com/internship/detail/teaching-assistance-competitive-coding-work-from-home-job-internship-at-cipherschools1622882289>

Web Development work from home job/internship at Spade Arts

Web Development

Spade Arts

Work From Home



START DATE

Immediately

DURATION

2 Months

STIPEND

18000 /month

APPLY BY

19 july' 21

Internship

Who can apply

Only those candidates can apply who:

1. are available for the work from home job/internship
2. can start the work from home job/internship between 5th Jun'21 and 10th Jul'21
3. are available for duration of 2 months
4. have relevant skills and interests

* Women wanting to start/restart their career can also apply.

Perks

Certificate

Letter of recommendation

Flexible work hours

5 days a week

Number of openings

3

Link: <https://internshala.com/internship/detail/web-development-work-from-home-job-internship-at-spade-arts1622899775>

PLACEMENT



**“ Choose a job you love,
and you will never have to work a day in your life.”**

Result of recruitment Drive of Wipro, Coforge Ltd., SmartBrains, Ginesys,CJ Dard.We all congratulate following students who were placed in the month of March-April : -

S No.	Roll No.	Student Name	Company
1.	1703310003	Aanchal Chaudhary	Coforge Limited
2.	1703310019	Abhishek Verma	Wipro HR Services-NIIT
3.	1703310029	Akhilesh Tripathi	SmartBrains
4.	1703310039	Ananya Shatrughan Tiwari	Ginesys
5.	1703310052	Arif Abbas Rizvi	Wipro
6.	1703310057	Ashish Baranwal	CJ Dard
7.	1703310063	Astik Jain	SmartBrains
8.	1703310072	Deepanshu Arya	Wipro HR Services-NIIT
9.	1703310074	Dharamveer Singh	Wipro

S No	Roll No.	Student Name	Company
10.	1703310076	Dimple Kaushik	Wipro HR Services-NIIT
11.	1703310082	Gaurav Raj	Wipro HR Services-Direct
12.	1703310084	Gyanendra Nath Dwivedi	Wipro HR Services-NIIT
13.	1703310089	Jagriti Varshney	Oodles Technologies Pvt. Ltd
14.	1703310100	Kushagra	Wipro
15.	1703310111	Mohd Hamd	Wipro HR Services-NIIT
16.	1703310113	Monika Jaiswal	CJ Dard
17.	1703310121	Nikhil Kumar	Wipro HR Services-NIIT
18.	1703310131	Pragya Pandey	Wipro
19.	1703310148	Rajat Shukla	Darwinbox Digital Solutions Pvt. Ltd, Wipro
20.	1703310151	Raman Shukla	Wipro HR Services-NIIT
21.	1703310153	Rashi Chaudhary	Truminds Software Systems Pvt Ltd.

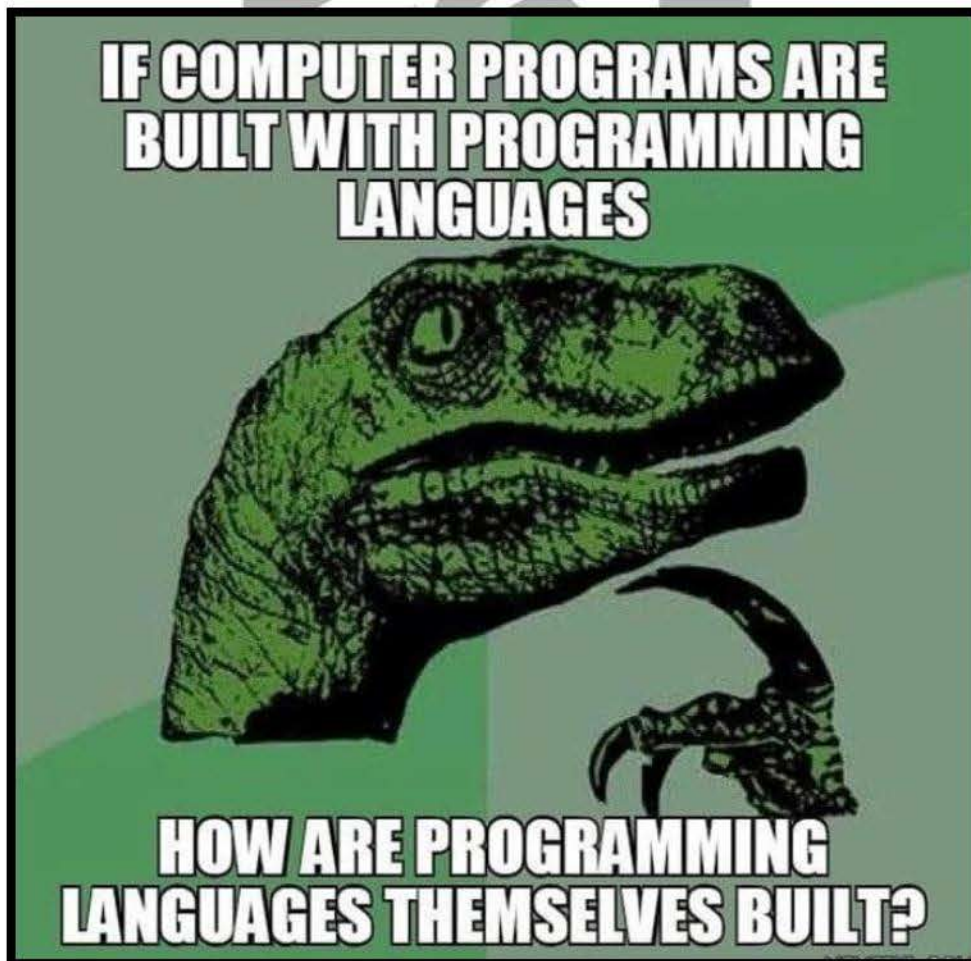
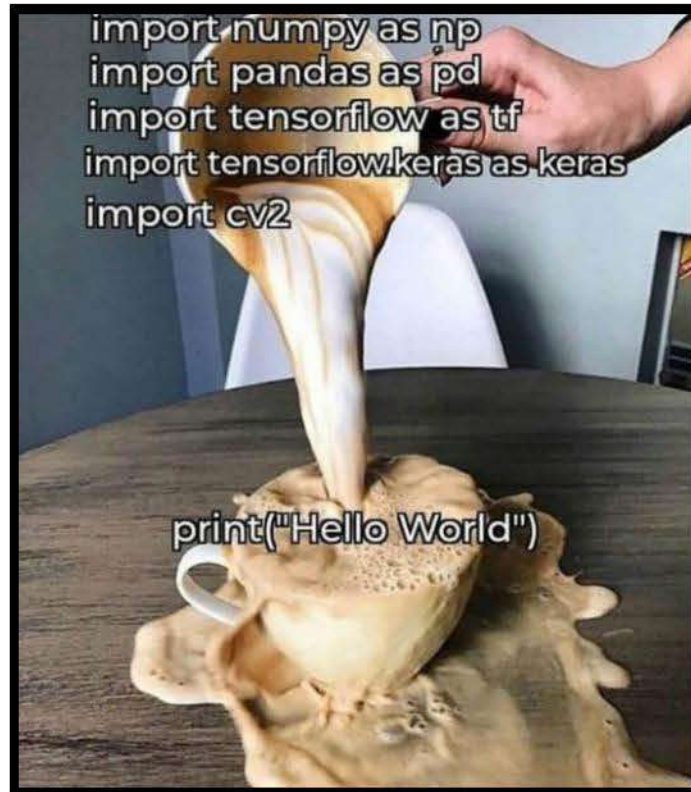
S No	Roll No.	Student Name	Company
22.	1703310171	Samiksha Senger	Wipro
23.	1703310178	Saumya Pateria	Wipro HR Services-NIIT
24.	1703310181	Shailesh Sharma	QA Infotech
25.	1703310197	Shruti Katiyar	Mirketa INC
26.	1703310198	Shruti Verma	Magic EdTech
27.	1703310201	Shubham Kumar Singh	Wipro HR Services-NIIT
28.	1703310217	Tanya Kansal	Magic EdTech
29.	1703310225	Utkarsh Dwivedi	Wipro
30.	1703310240	Viran Raj	Wipro HR Services-NIIT
31.	1703310244	Vivek	Wipro HR Services-NIIT
32.	1703310247	Yatin Mishra	Appinventiv Technologies, Wipro HR Services-NIIT
33.	1703310248	Yugank	Wipro HR Services-NIIT

S No	Roll No.	Student Name	Company
34.	1733310058	Sagar Kumar	CJ Dard
35.	1733310069	Shreya Gupta	CJ Dard
36.	1733310048	Priyanshi Srivastava	SmartBrains
37.	1733310060	Sahil Arora	SmartBrains
38.	1733310042	Nitya	SmartBrains
39.	1703310054	Rithik Shukla	SmartBrains
40.	1703310034	Mayank Joshi	W3villa Technologies
41.	1733310082	Yash Mishra	W3villa Technologies
42.	1733310015	Nidhi Sharma	Wipro HR Services-NIIT

FUN SECTION



“ PLAY is our brain's favourite way of learning. ”



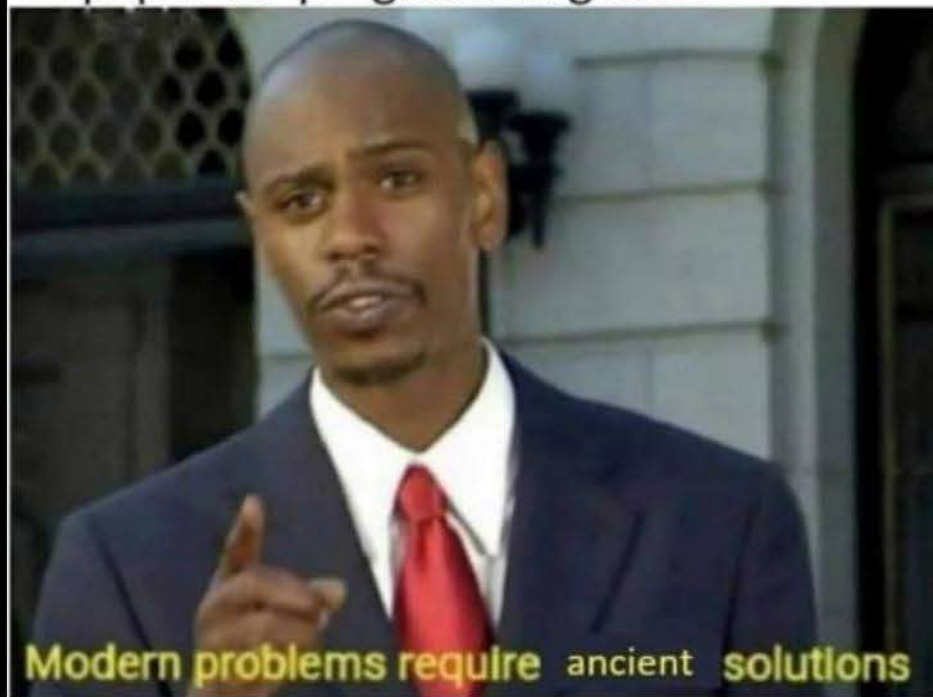
Other languages:

proper description of the error

Python:



When you have to write code on a piece of paper for programming tests





SCAN ME





BYTES

NOT JUST ONES
AND ZEROS



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@rkgitgzb

BYTES

VOLUME:9 ISSUE:6

MAY-JUNE

2020-2021

FOR ANY SUGGESTIONS PLEASE CONTACT US AT:



Bytescse@rkgit.edu.in

