

THE BYTE

ISSUE XIII

An E - MAGAZINE

From

Dept. Of Computer Science and Engineering
IMS ENGINEERING COLLEGE , GHAZIABAD

SEPTEMBER 2015



CURRENT AFFAIRS
LATEST TECHNOLOGIES
LITERARY
PLACEMENTS
Q & A





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LOOK UP INSIDE

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- ✚ Faculties Message
- ✚ The one Year Journey

Dear Readers ,

Thank you so much for supporting and motivating us . We will make sure you that we will make and publish the quality content which can motivate and provide knowledge to the student.

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- Kepler 186
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HOD'S MESSAGE



I am so pleased to offer my congratulations to the entire editorial team of our e-magazine 'THE BYTE' for publishing 12 issues and completing one year successfully. I could recall how this was initiated by a group of self-motivated students of 3rd year on the very day of teacher's day i.e 5th September 2014. The department is so proud to have such students.

The BYTE has proved to be one of the most successful highlights of the department. The magazine has been appreciated at all the levels including college management & administration, academicians, students, experts from the industry and many others.

The department is so proud to have such a successful product that provides a very useful platform to students & faculty to express themselves. It has been a great source of useful information in various fields of engineering technology. We shall be adding few more domain areas to our magazine in the coming issues especially related to innovative programming, solutions & many other aspects of learning.

Once again let me thank the entire editorial team of BYTE particularly our faculty coordinators **Mr. Amit Gautam & Ms. Lipika Goel** for their continuous & innovative efforts in publishing the issues of BYTE. The student coordinators of CSE 4th year also deserves special thanks for being able to maintain their interest & contribute in its success.

I urge all the readers particularly the students to read all the issues & contribute by writing informative articles. **Byte is created by the students & is for the students.**

Prof.(Dr.) Pankaj Agarwal

HoD

*Department of Computer Science
& Engineering*

FACULTY MESSAGE



“ Dear “The Byte Team Members ” For your achievement, Congrats! Your dedication, enthusiasm and insight are really inspiring. I wish you many years of great achievements! May you have many more years of success and higher achievements. You have made us proud. Good job.”

Prof. Vijai Singh , Department of CSE

Dear Amit , Lipika Mam & all The BYTE TEAM

Congratulations!!!

Your hard word is an example for many of us. Thanks for being so professional and consistent improved entity. Definitely looking forward to new edition of THE BYTE MAGAZINE.

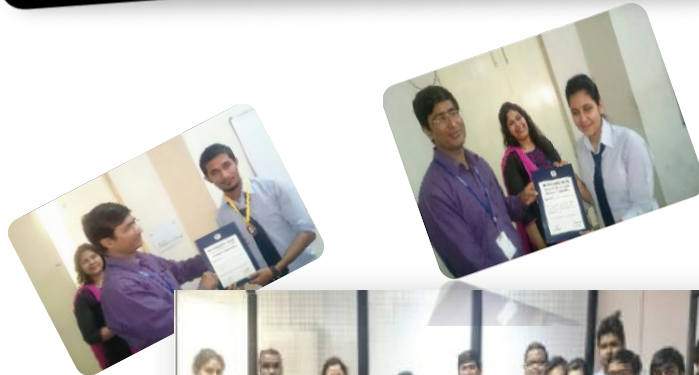
Congrats Hod Sir for your valuable and motivational support

Prof. Anurag Mishra , Department of CSE

Congratulation for whole BYTE team for their hard work and dedication towards work..

Prof. Umesh Gupta , Department of CSE

*One Year
Completed and
Journey
Contd.....*



April - 2015

**THE BYTE
Organises
ABHIVYAKTI**

Feb 2015

**Publish Hard
Copy by
DUCAT**



12 Oct 2014

**THE BYTE
Organises
MADAD-A
donation Camp**



**Journey
Begins**

05 Sep 2015





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ARTICLES

Google reveals the new logo for the company

BY-AAROHI SRIVASTAVA
B.Tech CS 1,2nd YR.

Just a month after announcing a major restructuring that will give birth to a new parent company, Alphabet, Google officially revealed its new logo. The largest subsidiary under the new firm name will be the core Google search and advertising business, which will continue to house Android, Maps and YouTube.

Over the years, the tech giant has tweaked its official logo at least six times. Google last updated its logo in September

2013. Some of the features in the letters are smoothened by the change that form the well-known colorful logo spelling out its name. The logo also strikes a similar resemblance to the logo of Alphabet. The wordmark of Alphabet has a similarly plain look, and this update makes the two companies' design language fall inline with each other.

So, why was the change needed? One key challenge for the designers, it said, was to refine "what makes us Googley".

The tech giant said that in the past, a desktop PC was the only device through which you could reach Google.

However, these days people interact with Google products across many different platforms, apps and devices and sometimes through all of them in a single day. One expects Google to be at

your service whenever and wherever you need it, be it your desktop, smartphones, TV, watch, Chromebooks, and even the dashboard in your car.



Google writes that its new logo is meant to reflect "this reality and [show]you when the Google magic is working for you, even on the tiniest screens."

The new logo is still a colorful typographic that features six simple letters on a plain white page. Google would be replacing the little blue "g" icon that you see on browser tabs with an uppercase "G" that matches the new logo.



National Institutes of Health (NIH) scientists report that a single dose of an experimental Ebola virus (EBOV) vaccine completely protects cynomolgus macaques against the current EBOV outbreak strain, EBOV-Makona, when given at least seven days before exposure, and partially protects them if given three days prior. The live-attenuated vaccine, VSV-EBOV, uses genetically engineered vesicular stomatitis virus (VSV) to carry an EBOV gene that has safely induced protective immunity in macaques. The experimental vaccine is currently undergoing testing in a global clinical trial in humans. VSV, an animal virus that primarily affects cattle, has been successfully tested as an experimental vaccine platform against several viruses.

Prior to this study, scientists had no information about how monkeys vaccinated with VSV-EBOV would respond to a challenge with EBOV-Makona, which has spread throughout West Africa. Previous animal studies demonstrated that VSV-EBOV could successfully protect monkeys against the first EBOV strain recognized, Mayinga, in 1976, and against EBOV-Kikwit, a strain that emerged in Central Africa in 1995. This new study shows that certain immune responses induced by VSV-EBOV are similar against all three viruses. The scientists, from NIH's National Institute of Allergy and Infectious Diseases Division of Intramural Research, concluded from these findings that VSV-EBOV likely would be equally protective against different EBOV strains.

The group also observed that the experimental VSV-EBOV vaccine appears to provide initial protection by triggering innate virus-fighting host responses; these responses partially protected animals challenged with EBOV-Makona within a week after vaccination. Animals vaccinated more than a week before viral challenge developed antibodies, an adaptive immune response, that were shown to be critical for protection.

Kepler-186f, the First Earth-size Planet in the Habitable Zone

EARTH



KEPLER-186F



The artist's concept depicts Kepler-186f, the first validated Earth-size planet to orbit a distant star in the habitable zone—a range of distance from a star where liquid water might pool on the planet's surface. The discovery of Kepler-186f confirms that Earth-size planets exist in the habitable zones of other stars and signals a significant step closer to finding a world similar to Earth.

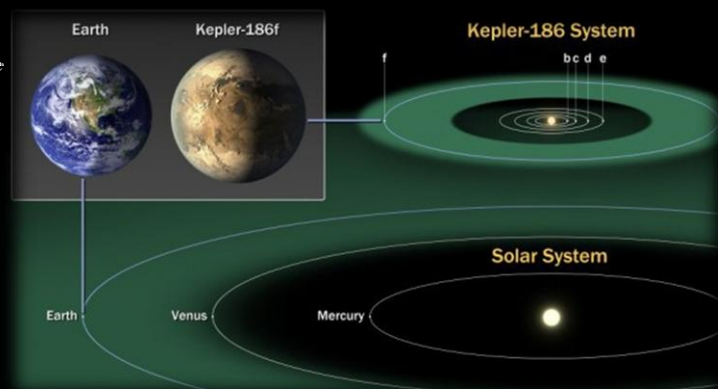
The size of Kepler-186f is known to be less than ten percent larger than Earth, but its mass, composition and density are not known. Previous research suggests that a planet the size of Kepler-186f is likely to be rocky. Prior to this discovery, the "record holder" for the most "Earth-like" planet went to Kepler-62f, which is 40 percent larger than the size of Earth and orbits in its star's habitable zone.

Kepler-186f orbits its star once every 130 days and receives one-third the energy that Earth does from the sun, placing it near the outer edge of the habitable zone. If you could stand on the surface of Kepler-186f, the brightness of its star at high noon would appear as bright as our sun is about an hour before sunset on Earth.

Kepler-186f resides in the Kepler-186 system about 500 light-years from Earth in the constellation Cygnus. The system is also home to four inner planets, seen lined up in orbit around a host star that is half the size and mass of the sun.

The artistic concept of Kepler-186f is the result of scientists and artists collaborating to imagine the appearance of these distant worlds.

Image credit: NASA Ames/JPL-Caltech/T. Pyle





5th of September is celebrated as Teachers' Day all over the India every year. Actually 5th of September is the birth anniversary of the Dr. Sarvepalli Radhakrishnan, who was a great scholar and teacher. In his later life first he became the Vice President of Indian republic and then the President of Indian republic.

Students all across the country observe this day to pay respect to their teachers. It is truly said that teachers are like back bone of our society. They play a great role in building up the characters of students and shape them to become an ideal citizens of India.

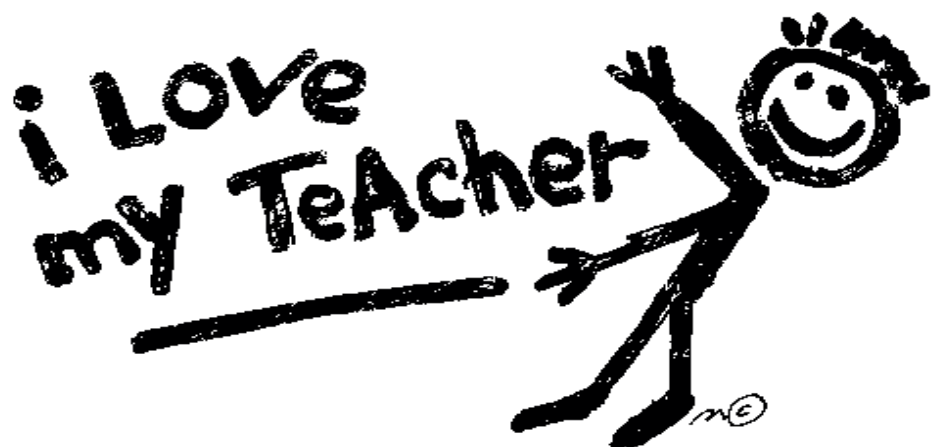
Teachers teach students very carefully and sincerely just like their own children. It is well said that teachers are great than the parents. Parents give birth to a child whereas teachers shape his/her character and make future bright. Thus we never forget and ignore them, we always respect and love them. Our parents are responsible for giving us love and quality care however our teachers are responsible for making whole future bright and successful. They let us know the importance of education in our life through their continuous efforts. They are the source of inspiration to us which help us to go ahead and get success. They motivate us towards study by giving examples of great personalities all over the world. They make us so strong and prepare to withstand any obstacle of

the life. They become full of immense knowledge and wisdom using which they nourish our lives. Come on my dear friends, say

ignorance. The study that we do at schools and colleges build the foundation of our character.

The teachers inspire us to proceed

Desivalley.com



together that 'our respected teachers we are always grateful to you for all you do to us'. My dear friends we should always obey our teachers orders and follow their advice to be the worthy citizens of India.

The teachers inspire us to proceed forward, to build our ethics and prepare us to withstand obstacles of our life.

The teachers teach students most carefully and sincerely and love them as their own children. We owe them more than our parents. Our parents bring us up and give us food and drink for our survival, but teachers arouse our hearts with light of knowledge and remove all sorts of

forward, to build our ethics and prepare us to withstand obstacles of our life. The teacher also imparts immense knowledge and wisdom in our lives. On this day, teachers are honoured through various functions and these functions are celebrated at every place throughout the country. The government also pays respect to them by giving different awards. On this day, we give them thanks and honour them by saying, – we are grateful to you dear teachers for all you do for us.



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LATEST TECHNOLOGY

BUILDING COMPUTERS FROM DNA?

New research from the University of East Anglia could one day help build computers from DNA.

Scientists have found a way to "switch" the structure of DNA using copper salts and EDTA (Ethylenediaminetetraacetic acid) -- an agent commonly found in shampoo and other household products. It was previously known that the structure of a piece of DNA could be changed using acid, which causes it to fold up into what is known as an "i-motif." But new research published today in the journal *Chemical Communications* reveals that the structure can be switched a second time into a hair-pin structure using positively-charged copper (copper cations). This change can also be reversed using EDTA. The applications for this discovery include nanotechnology -- where DNA is used to make tiny machines, and in DNA-based computing -- where computers are built from DNA rather than silicon.

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The applications for this discovery include nanotechnology -- where DNA is used to make tiny machines, and in DNA-based computing -- where computers are built from DNA rather than silicon.

It could also be used for detecting the presence of copper cations, which are highly toxic to fish and other aquatic organisms, in water.

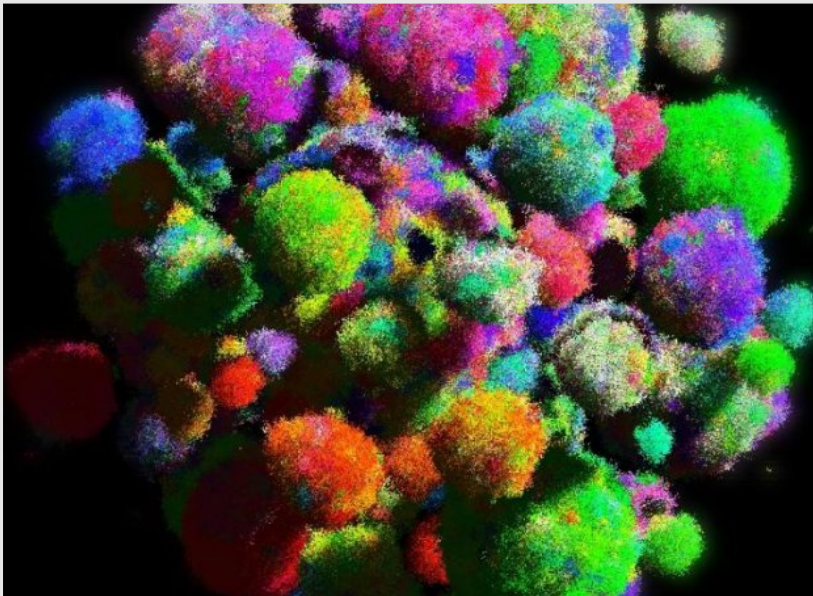
Lead researcher Dr Zoë Waller, from UEA's school of Pharmacy, said: "Our research shows how the structure of our genetic material -- DNA -- can be changed and used in a way we didn't realise.

"A single switch was possible before -- but we show for the first time how the structure can be switched twice.

"A potential application of this finding could be to create logic gates for DNA based computing. Logic gates are an elementary building block of digital circuits -- used in computers and other electronic equipment. They are traditionally made using diodes or transistors which act as electronic switches.

"This research expands how DNA could be used as a switching mechanism for a logic gate in DNA-based computing or in nano-technology."





Capturing cancer: 3-D model of solid tumors explains cancer evolution

They're among the most powerful tools for shedding new light on cancer growth and evolution, but mathematical models of the disease for years have faced an either/or stand off.

Though models have been developed that capture the spatial aspects of tumors, those models typically don't study genetic changes. Non-spatial models, meanwhile, more accurately portray tumors' evolution, but not their three-dimensional structure.

A collaboration between Harvard, Edinburgh, and Johns Hopkins Universities including Martin Nowak, Director of the Program for Evolutionary Dynamics and Professor of Mathematics and of Biology at Harvard, has now developed the first model of solid tumors that reflects both their three-dimensional shape and genetic evolution. The new model explains why cancer cells have a surprising number of genetic mutations in common, how driver mutations spread through the whole tumor and how drug resistance evolves. The study is described in an August 26 paper in *Nature*. "Previously, we and others have mostly used non-spatial models to study cancer evolution," Nowak said. "But those models do not describe the spatial

characteristics of solid tumors. Now, for the first time, we have a computational model that can do that."

A key insight of the new model, Nowak said, is the ability for cells to migrate locally.

"Cellular mobility makes cancers grow fast, and it makes cancers homogenous in the sense that cancer cells share a common set of mutations. It is responsible for the rapid evolution of drug resistance," Nowak said. "I further believe that the ability to form metastases, which is what actually kills patients, is a consequence of selection for local migration."

Nowak and colleagues, including Bartek Wacław of the University of Edinburgh, who is the first author of the study, Ivana Bozic of Harvard University and Bert Vogelstein of Johns Hopkins University, set out to improve on past models, because they were unable to answer critical questions about the spatial architecture of genetic evolution.

"The majority of the mathematical models in the

past counted the number of cells that have particular mutations, but not their spatial arrangement," Nowak said. Understanding that spatial structure is important, he said, because it plays a key role in how tumors grow and evolve.

In a spatial model cells divide only if they have the space to do so. This results in slow growth unless cells can migrate locally.

"By giving cells the ability to migrate locally," Nowak said, "individual cells can always find new space where they can divide.

The result isn't just faster tumor growth, but a model that helps to explain why cancer cells share an unusually high number of genetic mutations, and how drug resistance can rapidly evolve in tumors.

As they divide, all cells -- both healthy and cancerous -- accumulate mutations, Nowak said, and most are so called "passenger" mutations that have little effect on the cell.

In cancer cells, however, approximately 5 percent are what scientists call "driver" mutations -- changes that allow cells to divide faster or live longer. In addition to

rapid tumor growth, those mutations carry some previous passenger mutations forward, and as a result cancer cells often have a surprising number of mutations in common.

Similarly, drug resistance emerges when cells mutate to become resistant to a particular treatment. While targeted therapies wipe out nearly all other cells, the few resistant cells begin to quickly replicate, causing a relapse of the cancer.

"This migration ability helps to explain how driver mutations are able to dominate a tumor, and also why targeted therapies fail within a few months as resistance evolves," Nowak said. "So what we have is a computer model for solid tumors, and it's this local migration that is of crucial importance."

"Our approach does not provide a miraculous cure for cancer," said Bartek Wacław, "However, it suggests possible ways of improving cancer therapy. One of them could be targeting cellular motility (that is local migration) and not just growth as standard therapies do."



THE BYTE

SEP, 2015

Computer scientists discover how to find bias in algorithms

"Software may appear to operate without bias because it strictly uses computer code to reach conclusions. That's why many companies use algorithms to help weed out job applicants when hiring for a new position."

a team of computer scientists from the University of Utah, University of Arizona and Haverford College in Pennsylvania have discovered a way to find out if an algorithm used for hiring decisions, loan approvals and comparably weighty tasks could be biased like a human being.

The researchers, led by Suresh Venkatasubramanian, an associate professor in the University of Utah's School of Computing, have discovered a technique to determine if such software programs discriminate unintentionally and violate the legal standards for fair access to employment, housing and other opportunities. The team also has determined a method to fix these potentially troubled algorithms.

Venkatasubramanian presented his findings Aug. 12 at the 21st Association for Computing Machinery's Conference on Knowledge Discovery and Data Mining in Sydney, Australia.

"There's a growing industry around doing resume filtering and resume scanning to look for job applicants, so there is definitely interest in this," says Venkatasubramanian. "If there are

structural aspects of the testing process that would discriminate against one community just because of the nature of that community, that is unfair."

Machine-learning algorithms

Many companies have been using algorithms in software programs to help filter out job applicants in the hiring process, typically because it can be overwhelming to sort through the applications manually if many apply for the same job. A program can do that instead by scanning resumes and searching for keywords or numbers (such as school grade point averages) and then assigning an overall score to the applicant.

These programs also can learn as they analyze more data. Known as machine-learning algorithms, they can change and adapt like humans so they can better predict outcomes. Amazon uses similar algorithms so they can learn the buying habits of customers or more accurately target ads, and Netflix uses them so they can learn the movie tastes of users when recommending new viewing choices.

But there has been a growing debate on whether machine-learning algorithms can introduce unintentional bias much like humans do.

"The irony is that the more we design artificial intelligence technology that successfully mimics humans, the more that A.I. is learning in a way that we do, with all of our biases and limitations," Venkatasubramanian says.

Disparate impact

Venkatasubramanian's research determines if these software algorithms can be biased through the legal definition of disparate impact, a theory in U.S. anti-discrimination law that says a policy may be considered discriminatory if it has an adverse impact on any group based on race, religion, gender, sexual orientation or other protected status.

Venkatasubramanian's research revealed that you can use a test to determine if the algorithm in question is possibly biased. If the test -- which ironically uses another machine-learning algorithm -- can accurately predict a person's race or gender based on the data being analyzed, even though race or gender is hidden from the data, then there is a potential problem for bias based on the definition of disparate impact.

"I'm not saying it's doing it, but I'm saying there is at least a potential for there to be a problem," Venkatasubramanian says.



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LITERARY



OUR

BY : NISHITA AGARWAL
B.TECH (IT) 1ST YEAR

WHAT'S ON YOUR TRAY?

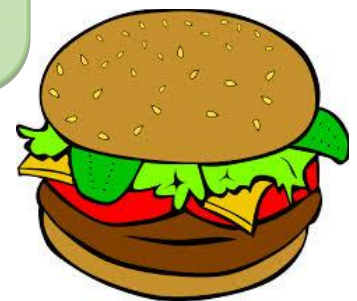


****A place of everyone's dream
Where college always seems green
With all jubilation among the teens
Yes, it's our 'Canteen'*

*It's every evening's routine
Girls chatting about their kings
Each of them dressed like Queen
Enters the only place 'Canteen'*

*Boy's activeness shows its grin
Silence diminishes, as it never had been
Dominates surroundings of 'Canteen'*

*Eyes searching for their favourite beings
If succeeds, celebrates the win
Praying to have everyday same scene
Leave the place of Love and Life 'Canteen'*





Finding Faith

BY : MANUREET SEEHRA
EC1, B.Tech 3rd year

The journey of establishing faith is a long one. It takes far greater challenges and emotional dares to put up faith. Struggle to explore is one of the basic issues which can be overcome but concluding to follow one is a real dilemma. What do you think? Can faith be only interpreted as a synonym for religion? Or it should only adhere to the meaning of loyalty and allegiance to fellow mates? Whatever you think is your opinion and here is mine: Faith can be established inspired or aspired by any thought or philosophy or any principle. It should just have the power to heal and turn you into a rightful human. Marie Curie found it in science, Allan Turing found it in cryptology, Michael Jackson in dance and Slash, the great guitarist, in musical notes. They all have one single element common in them. They never betrayed or did anything for the sake of pseudo-satisfaction in whatever they were involved. If we can extract the gist then it may be evident, it was a faith for them. It always kept on evolving them, sharpening their skills and intellects, flourishing their perception and making them rightful humans.

Faith can be interpreted as a form of meditation which always leads you to enlightenment. This kind of faith or meditation can always be susceptible to corruption. So, in order to maintain the process of enlightenment it is necessary to close all evil doors. After all, meditation demands focus.

What goods can be accounted in the light of religions that we have tried to forcefully inculcate or fought for given to contemplate about? The primary essence of religion has been lost light-years ago and seems to be burnt to ashes. Although, every religion guides to salvation and the supreme divine power and similar stuff, was it consequential to segregate the social order or very much intended? The world has witnessed the most of its ugliness and cruelty only in the name of God, mass killings and massacres. As per my reasoning it could be more beautiful to adhere to something which is unbiased, doesn't provoke hatred and spread peace. Maybe like Steve Jobs, individuals indulged so much in their own passions, dedicated to goodness, innovation and revolution. Finding a faith is not discarding a belief or philosophy but something which can guide your morality and channelize the potentials contained in each individual. It's all about rediscovering one's own self. And expressing such thoughts makes me think I have found mine.



BY : Priya Maurya
B.Tech (EC -2) 1st year

If you are a PUZZLE, I'm a RIDDLE!
As you turn LYRICAL, I become MIRACLE!
While you're TECHNICAL, I'm CRITICAL!
Hey if you're COOL, look I'm BEAUTIFUL!
We met by FATE, now seems GREAT!
I say YES, you say No,
I say BYE, you say HELLO!
Like a rainbow to a black plain THING,
A monotonous to an opera SING!
A beginning to an ENDING,
A broken heart & then something MENDING!!!

You and I

saluting before the memories of a great **Indian** Engineer who envisioned a greater **India**

HAPPY ENGINEER'S DAY

"Remember, Your work may be only to sweep a railway crossing, but it is your duty to keep it so clean that no other crossing in the world is as clean as yours".

Sir Mokshagundam Visvesvaraya

Dedicated to all Engineers and Engineering Students all over the Nation.



Bharat Ratna Sir Mokshagundam Visvesvaraya (1861-1962) was called a wizard in engineering. He was also called the precursor of economic planning in India. He took an interest not in engineering alone, but was capable of applying his talent to many allied matters connected with the development of the nation. His learned discourse on economic planning in India titled 'Planned Economy for India and Reconstructing India' was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. To commemorate the birthday of Bharat Ratna Sir M Visvesvaraya, the Council of the Institution decided to observe September 15 as the Engineers' Day every year. This is celebrated throughout the country through all the Centres of the Institution with learned discourses on a theme specified by the Council every year

As an Engineer par excellence:

He was the chief engineer during the construction of Krishna sager dam on the Cauvery River.

Many dams built by him in Bombay are still functional even till today.

The Sri Jayachamaraja Polytechnic Institute of Bangalore was started on the recommendation of Sir Visvesvaraya.

The Block System was invented by him, which was a system of automated doors that closed in the conditions of overflow.

Krishnarajasagara Dam built by his help, is still praised by everybody witnessing it.

Mysore University, which is a matter of great proud for the people of Mysore, was established because of his

will and conviction. As a Person:What was achieved by Sir Visvesvaraya, was not as easy as it seemed, as it required strict discipline from his side.

Punctuality: He was very famous for his punctuality, it's said He was never late even by a minute and expected his people also to realize the importance of time.

Perfect Clothing: Every person having met Sir Mokshagundam Visvesvaraya, proudly remembers his neat and fine clothing.

Perfectionist: There are many examples to show that even a little task that he took up, was always completed to perfection. Even if it was to deliver a speech, he would think in advance, write and rehearse it number of times.

Fitness: Even at the age of 92, he was never dependent on comforts; he would not only walk by himself, but, take full participation in all proceedings.

Dedication to work: Nothing was able to deter Sir, from his commitment to good work; his work was his worship.

Courageous: Many of the projects completed by him that India stands proud of today, would not have existed if it was not his will and conviction.

Fearless Patriot: When it came to India, even high perks given to Sir by the British Government were not enough for him; he opposed everything and anything that was against the favor of his nation.-



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Q & A

CAN'T PUT YOUR PHONE DOWN? ARE YOU A NOMOPHOB?

Are you a nomophobe? If you're wondering how to respond to that question, an Iowa State University study can help you find the answer. ISU researchers have developed a questionnaire to help you determine if you suffer from nomophobia or a fear of being without your mobile phone.

Caglar Yildirim, lead author of the study and a Ph.D. student in human computer interaction, and Ana-Paula Correia, an associate professor in ISU's School of Education, identified four dimensions of this modern-day phobia. The study was published in the journal *Computers in Human Behavior*.



Nomophobia Questionnaire

Study participants were asked to respond to the following statements on a scale of 1 (strongly disagree) to 7 (strongly agree). Total scores were calculated by adding the responses to each item. The higher scores corresponded to greater nomophobia severity.

1. I would feel uncomfortable without constant access to information through my smartphone.
2. I would be annoyed if I could not look information up on my smartphone when I wanted to do so.
3. Being unable to get the news (e.g., happenings, weather, etc.) on my smartphone would make me nervous.
4. I would be annoyed if I could not use my smartphone and/or its capabilities when I wanted to do so.
5. Running out of battery in my smartphone would scare me.
6. If I were to run out of credits or hit my monthly data limit, I would panic.
7. If I did not have a data signal or could not connect to Wi-Fi, then I would constantly check to see if I had a signal or could find a Wi-Fi network.

If I did not have my smartphone with me:

1. I would feel anxious because I could not instantly communicate with my family and/or friends.
 2. I would be worried because my family and/or friends could not reach me.
 3. I would feel nervous because I would not be able to receive text messages and calls.
 4. I would be anxious because I could not keep in touch with my family and/or friends.
 5. I would be nervous because I could not know if someone had tried to get a hold of me.
 6. I would feel anxious because my constant connection to my family and friends would be broken.
 7. I would be nervous because I would be disconnected from my online identity.
 8. I would be uncomfortable because I could not stay up-to-date with social media and online networks.
 9. I would feel awkward because I could not check my notifications for updates from my connections and online networks.
 10. I would feel anxious because I could not check my email messages.
- I would feel weird because I would not know what to do.



1st Birthday Bash



By : Aayushi
Mishra
B.Tech ,2nd Yr
CS1

Social Media Security Tips

1. Realize that you can become a victim at any time. Not a day goes by when we don't hear about a new hack. With 55,000 new pieces of malware a day, security never sleeps.
2. Think before you post. Status updates, photos, and comments can reveal more about you than you intended to disclose. You could end up feeling like some silly politician as you struggle to explain yourself.
3. Nothing good comes from filling out a "25 Most Amazing Things About You" survey. Avoid publicly answering questionnaires with details like your middle name, as this is the type of information financial institutions may use to verify your identity.
4. Think twice about applications that request permission to access your data. You would be allowing an unknown party to send you email, post to your wall, and access your information at any time, regardless of whether you're using the application.
5. Don't click on short links that don't clearly show the link location. Criminals often post phony links that claim to show who has been viewing your profile. Test unknown links at Siteadvisor.com by pasting the link into the "View a Site Report" form on the right-hand side of the page.

6. Beware of posts with subjects along the lines of, "LOL! Look at the video I found of you!" When you click the link, you get a message saying that you need to upgrade your video player in order to see the clip, but when you attempt to download the "upgrade," the malicious page will instead install malware that tracks and steals your data.

7. Be suspicious of anything that sounds unusual or feels odd. If one of your friends posts, "We're stuck in Cambodia and need money," it's most likely a scam.

8. Understand your privacy settings. Select the most secure options and check periodically for changes that can open up your profile to the public.

9. Geolocation apps such as Foursquare share your exact location, which also lets criminals know that you aren't home, so reconsider broadcasting that information.

10. Use an updated browser. Older browsers tend to have more security flaws.

11. Choose unique logins and passwords for each of the websites you use. I'm a big fan of password managers, which can create and store secure passwords for you.

12. Check the domain to be sure that you're logging into a legitimate website. So if you're visiting a Facebook page, look for the www.facebook.com address.

13. Be cautious of any message, post, or link you find on Facebook that looks at all suspicious or requires an additional login.

14. Make sure your security suite is up to date and includes antivirus, anti-spyware, anti-spam, a firewall, and a website safety advisor.

15. Invest in identity theft protection. Regardless of how careful you may be or any security systems you put in place, there is always a chance that you can be compromised in some way. It's nice to have identity theft protection watching your back

Top 10 hacking apps for for Android Smartphones and Tablets

By- Achint singh
B.Tech CS1,2nd yr.

Linux is regarded as the best operating system for ethical hacking and penetration testing also called pentesting. There are various hacking apps available for Android, as it is a Linux based operating system. If you want to test out vulnerabilities and find bugs, you need a solid hacking tool to back your research up.

Below is a list of Android hacking applications that will convert your Android device into a hacking machine.

AndroRAT

AndroRAT is a remote administration tool for Android devices. In other words, it is basically a client server application. The aim of the remote administration tool is to give control of the Android system remotely and retrieve information from it.

SpoofApp

(Phone call only) SpoofApp let's you to place (spoof) calls with any caller ID number. You need SpoofCards to spoof calls, which are sold separately. It also includes some other features such as voice changer, which allows you to change your voice while using it. Additionally, it also allows you to record the whole conversation. You will receive a free 5 minute SpoofCard when you install the app for the first time.

Network Spoofer

Network Spoofer is another good app that allows you to change the website on other people's computer from your Android phone. You need to download the Network Spoofer app and then log onto the Wi-Fi network. Choose a spoof to use with the app then tap on start. This app is considered as a malicious hacking tool by network administrators. So, it is advisable to not try this on unauthorized networks, as this is not a penetration testing app. It is just to exhibit how susceptible the home network is.

Faceniff

(Facebook only) Faceniff is basically used to sniff the Facebook ID over the same network. For instance, if you are on the same network and your Faceniff is turned on, then it will sniff all the Facebook IDs that are

logged in from the same network. Since this is a paid version, you need to pay for this on the internet.

WhatsApp Sniffer

(For WhatsApp only) This tool can be used to hack private WhatsApp chats, pictures, audios and videos of your friends who are using your Wi-Fi Hotspot. Disable your antivirus before using this app, as it is detected by antivirus.

APK Inspector

The goal of this project is to aide analysts and reverse engineers to visualize compiled Android packages and their corresponding DEX code. APKInspector provides both analysis functions and graphic features for the users to gain deep insight into the malicious apps. You can also get the source code of any android application and edit it in order to remove credits and license.

dSploit

dSploit is a free penetration testing suite developed for the Android operating system, which comes with all-in-one network analysis capabilities. It can be used by anyone in order to perform a number of advanced network related tasks. It also contains a number of powerful functions that allow you to analyze, capture, and manipulate network transactions. You can scan networks for connected devices, identify the operating system, running services and open ports on each device, as well as check them for vulnerabilities. The app is designed to be very fast, handy and easy to use.

Wi-Fi Killer

This app allows you to block a person from using your Wi-Fi network. You can disable internet connection for any device that is present in your Wi-Fi network.

DroidSheep

DroidSheep is also one of the free best application for sniffing the sessions over the network. Similar to Faceniff, it not only sniffs the Facebook sessions but also other sessions.

Tips to Stay Safe on Public Wi-Fi

**PUBLIC WIFI
SECURITY**



From- Charchit Gupta
B.TECH –CS1 2nd Yr

1. TURN OFF SHARING

You may share your music library, printers or files, or even allow remote login from other computers on your Wi-Fi network in the privacy of your own home. Unless you disable these settings before connecting to a public Wi-Fi network, anyone else in the vicinity may be able to hack into your PC.

If you're using a Windows PC, you'll want to start by opening the advanced sharing settings of the Homegroup section of the Network and Internet settings in the Control Panel. From here, you'll be able to toggle file and printer sharing as well as network discovery, which will make your computer visible to anyone connected to the same network. For Mac, just go to System Preferences, then Sharing, and make sure none of the options are checked.

2. GET A VPN

The most secure way to browse on a public network is to use a virtual private network. A VPN routes your traffic through a secure network even on public Wi-Fi, giving you all the perks of your private network while still having the freedom of public Wi-Fi.

While free VPN services exist, a paid VPN service guarantees the connection's integrity. If you regularly connect to unknown networks, setting up a VPN is smart to protect your personal information.

One VPN provider is Private Internet Access, which costs \$6.95 monthly and allows for unlimited bandwidth and multiple exit points, which will let you choose which country your network traffic is routed through.

3. AVOID AUTOMATICALLY CONNECTING TO WI-FI HOTSPOTS

Your smartphone or tablet may be set to automatically connect to any available Wi-Fi hotspot, a setting that can seriously endanger your privacy. Not only will this allow your device to connect to public networks without your express permission, you may also be automatically connecting to malicious networks set up specifically to steal your information.

Most modern smartphones have this option disabled by default, but this isn't always the case, and it's a setting you should always double-check. First, open the Wi-Fi section of your phone's settings app. If you don't see an option to disable auto-connecting, you're already safe. Otherwise, turn this setting off.

4. USE HTTPS

Regular websites transfer content in plain text, making it an easy target for anyone who has hacked into your network connection. Many websites use HTTPS to encrypt the transfer data, but you shouldn't rely on the website or Web service to keep you protected.

You can create this encrypted connection with the browser extension HTTPS Everywhere. With this plugin enabled, almost all website connections are secured with HTTPS, ensuring that any data transfer is safe from prying eyes.

5. USE TWO-FACTOR AUTHENTICATION

Two-factor authentication means you need two pieces of information to log into an account: One is something you know and the other is something you have. Most often this takes the form of a password and a code sent to your cellphone.

Many popular websites and services support two-factor authentication. This means that even if someone is able to get your password due to a hole in a public Wi-Fi network, they won't be able to log into your account.



To enable this feature for Gmail, log into your account and open the settings page. Navigate to the Accounts And Import tab and click Other Google Account Settings. The second section will be two-step verification, and you can click Settings to start.

First, enter your phone number and choose whether you'd like a text message or a phone call. Next, Google will send a six-digit code to your phone. Enter this when prompted. Now, whenever you log into Google from a new computer, you'll be asked to verify your identity by entering both pieces of info.

The login process will now take a few extra seconds when you use a different device, but you can rest peacefully knowing that your account is safe and secure.

6. CONFIRM THE NETWORK NAME

Sometimes hackers will set up a fake Wi-Fi network to attract unwitting public Wi-Fi users. The Starbucks public Wi-Fi network might not be named "Free Starbucks Wi-Fi." Connecting to a fake network could put your device into the hands of a malicious ne'er-do-well.

If you're not sure if you're connecting to the official network, ask. If you're in a café or coffee shop, employees will know the name of the official network and help you get connected. If there's no one around to ask, you may want to move to a different location where you can be sure that the Wi-Fi network isn't fake.

7. PROTECT YOUR PASSWORDS

Using unique passwords for different accounts can help if one of your accounts is compromised. Keeping track of multiple secure passwords can be tricky, so using a password manager such as KeePass or LastPass can help keep you safe and secure.

Both KeePass and LastPass are free, but they store your information in different ways. KeePass keeps an encrypted database file on your computer, while LastPass stores your credentials in the cloud. There are pros and cons to each approach, but both services are completely secure.

8. TURN ON YOUR FIREWALL

Most OS's include a built-in firewall, which monitors incoming and outgoing connections. A firewall won't provide complete protection, but it's a setting that should always be enabled.

On a Windows notebook, locate your firewall settings in the Control Panel under System And Security. Click on Windows Firewall, then click Turn Windows Firewall On or Off. Enter your administrator password, then verify that the Windows Firewall is on.

These settings are in System Preferences, then Security & Privacy on a Mac. Navigate to the Firewall tab and click Turn On Firewall. If these settings are grayed out, click the padlock icon in the lower left, enter your password, then follow these steps again.

9. RUN ANTI-VIRUS SOFTWARE

Always running up-to-date anti-virus software can help provide the first alert if your system has been compromised while connected to an unsecured network. An alert will be displayed if any known viruses are loaded onto your PC or if there's any suspicious behavior, such as modifications to registry files.

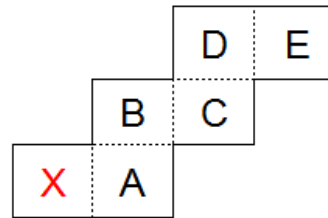
While running anti-virus software might not catch all unauthorized activity, it's a great way to protect against most attacks.

1st Birthday Bash

THE BYTE
SEP 2015

By : Ms. Tushina
Bedwal
Asst. Proff.
Dept. of CSE

1. The figure shown can be folded into the shape of a cube. In the resulting cube, which of the lettered faces is opposite the face marked x?



- a. c b. a c. d d. b
2. In how many ways a team of 11 must be selected from 5 men and 11 women such that the team must comprise of not more than 3 men?
- a. 1565 b. 1243 c. 2256 d. 2456
3. Given that $0 < a < b < c < d$, which of the following the largest ?
- a. $(c+d) / (a+b)$ b. $(a+d) / (b+c)$ c. $(b+c) / (a+d)$ d. $(b+d) / (a+c)$
4. Eesha bought 18 sharpeners for Rs.100. She paid 1 rupee more for each white sharpener than for each brown sharpener. What is the price of a white sharpener and how many white sharpener did she buy ?
- a. Rs.5, 10 b. Rs.6, 10 c. Rs.5, 8 d. Rs.6, 8
- 5.
- | | | | | | | | | | | | | | |
|--|--|--|---|--|--|--|---|--|--|--|---|--|--|
| | | | 7 | | | | x | | | | 8 | | |
|--|--|--|---|--|--|--|---|--|--|--|---|--|--|
- The fourteen digits of a credit card are to be written in the boxes shown above. If the sum of every three consecutive digits is 18, then the value of x is :
- a. 3 b. cannot be determined from the given information. c. 2 d. 1
6. Four people each roll a four die once. Find the probability that at least two people will roll the same number ?
- a. 5/18 b. 13/18 c. None of the given choices d. 1295/1296
7. Jake can dig a well in 16 days. Paul can dig the same well in 24 days. Jake, Paul and Hari together dig the well in 8 days. Hari alone can dig the well in
- a. 96 days b. 48 days c. 32 days d. 24 days
8. The sum of the digits of a three digit number is 17, and the sum of the squares of its digits is 109. If we subtract 495 from the number, we shall get a number consisting of the same digits written in the reverse order. Find the number.
- a. 773 b. 683 c. 944 d. 863
9. Mark told John "If you give me half your money I will have Rs.75. John said, "if you give me one third of your money, I will have Rs.75/- How much money did John have ?
- a. 45 b. 60 c. 48 d. 37.5
10. Eesha has a wheat business. She purchases wheat from a local wholesaler of a particular cost per pound. The price of the wheat of her stores is \$3 per kg. Her faulty spring balance reads 0.9 kg for a KG. Also in the festival season, she gives a 10% discount on the wheat. She found that she made neither a profit nor a loss in the festival season. At what price did Eesha purchase the wheat from the wholesaler ?
- a. 3 b. 2.5 c. 2.43 d. 2.7

11. Raj goes to market to buy oranges. If he can bargain and reduce the price per orange by Rs.2, he can buy 30 oranges instead of 20 oranges with the money he has. How much money does he have ?

- a. Rs.100 b. Rs.50 c. Rs.150 d. Rs.120

12. A city in the US has a basketball league with three basketball teams, the Aziecs, the Braves and the Celtics. A sports writer notices that the tallest player of the Aziecs is shorter than the shortest player of the Braves. The shortest of the Celtics is shorter than the shortest of the Aziecs, while the tallest of the Braves is shorter than the tallest of the Celtics. The tallest of the Braves is taller than the tallest of the Aziecs.

Which of the following can be judged with certainty ?

X) Paul, a Brave is taller than David, an Aziecs

Y) David, a Celtic, is shorter than Edward, an Aziecs

- a. Both X and Y b. X only c. Y only d. Neither X nor Y

13. There are 3 classes having 20, 24 and 30 students respectively having average marks in an examination as 20, 25 and 30 respectively. The three classes are represented by A, B and C and you have the following information about the three classes.

- a. In class A highest score is 22 and lowest score is 18
b. In class B highest score is 31 and lowest score is 23
c. In class C highest score is 33 and lowest score is 26.

If five students are transferred from A to B, what can be said about the average score of A; and what will happen to the average score of C in a transfer of 5 students from B to C ?

- a. definite decrease in both cases b. can't be determined in both cases
c. definite increase in both cases d. will remain constant in both cases

14. The value of a scooter depreciates in such a way that its value at the end of each year is $\frac{3}{4}$ of its value at the beginning of the same year. If the initial value of the scooter is Rs.40,000, what is the value at the end of 3 years ?

- a. Rs.13435 b. Rs.23125 c. Rs.19000 d. Rs.16875

15. Rajiv can do a piece of work in 10 days, Venky in 12 days and Ravi in 15 days. They all start the work together, but Rajiv leaves after 2 days and Venky leaves 3 days before the work is completed. In how many days is the work completed ?

- a. 5 b. 6 c. 9 d. 7

ANSWERS:

- | | |
|----|---|
| 1 | c |
| 2 | c |
| 3 | a |
| 4 | b |
| 5 | a |
| 6 | b |
| 7 | b |
| 8 | d |
| 9 | b |
| 10 | c |
| 11 | d |
| 12 | b |
| 13 | b |
| 14 | d |
| 15 | d |

GATE 2016

Graduate Aptitude Test in Engineering

Dates of Examination

On Saturdays and Sundays between
30 January 2016 and 07 February 2016

The exact schedule will be given on the **GATE 2016 website**

Organizing Institute
Indian Institute of Science



Admission to Postgraduate Courses (Master's and Doctoral) with MHRD and other Government Scholarships / Assistantships in Engineering / Technology / Architecture / Science are open to those who qualify in GATE. The GATE score is also used by some PSUs for their recruitment. GATE 2016 score will be valid for a period of **THREE YEARS ONLY** from the date of announcement of results. Phone numbers for information: +91 80 2360 6761/2/3/4/5.

Eligibility

Only the following categories of candidates are eligible to appear in GATE :

Bachelor's degree holders in Engineering/ Technology (4 years after 10+2 or 3 years after Diploma in Engineering/Technology) and those who are in the final year of such programs.

Bachelor's degree holders of Architecture (Five years course) and those who are in the final year of such programs

Bachelor's degree holders of Four-year program in Science (B.S.) and those who are in the final year of such programs

Master's degree holders in any branch of Science / Mathematics / Statistics/Computer Applications or equivalent and those who are in the final year of such programs.

Holders of Four-year Integrated Master's degree (Post-B.Sc.) in Engineering/Technology and those in the second or higher year of such programs.

Holders of Five-year Integrated Master's degree or Dual Degree in Engineering / Technology and those in the fourth or higher year of such programs.

Holders of Five-year integrated M.Sc. or Five year integrated B.Sc./M.Sc. degree and those in the final year of such programs.

Candidates with qualifications obtained through examinations conducted by professional societies recognized by UPSC/AICTE as equivalent to B.E./B.Tech. Those who have completed section A of AMIE or equivalent of such professional courses are also eligible.

Pattern of GATE

Examinations for all the papers will be conducted as Computer Based Tests only.

Application Fee

Candidates have to apply only ONLINE

₹ 750 for the SC / ST / PwD category candidates

₹ 750 for women candidates

₹ 1500 for all other candidates

The application fee has to be paid only online either through e-challan or through net banking.

Application Time Lines

Submission of Application and supporting documents

Starting Date: 1st September 2015 (Tuesday)

Ending Date : 1st October 2015 (Thursday)

How to Apply

All candidates must apply ONLINE. Further details and ONLINE application form can be obtained by accessing any of the GATE/JAM zonal websites (or by scanning the image below using a QR reader facility that is available on many mobile phones).

Institute	Web address
IISc Bangalore	gate.iisc.ernet.in
IIT Bombay	www.gate.iitb.ac.in
IIT Delhi	gate.iitd.ac.in
IIT Guwahati	www.iitg.ernet.in/gate
IIT Kanpur	gate.iitk.ac.in
IIT Kharagpur	gate.iitkgp.ac.in
IIT Madras	gate.iitm.ac.in
IIT Roorkee	www.iitr.ac.in/gate





the  ISSUE XIII
SEP 2015

**DEPARTMENTAL
EVENT**

The eminent speaker **Mr. Rakesh Adnikari, Senior Project Team leader** was invited as a guest on **8th August, 2015** to give a motivation class for students. He have more than ten years of experience in Ericsson and another 6 years of experience in IT & consulting companies like EHPT, Wipro and AGILENT Tech. He told the importance of setting a goal in each student's life. And how to prepare for that goal as well as how to achieve the goal. The expert talk was attended by all the 2nd year students from computer science department from IMS College, GZB.



The eminent speaker **Mr. Ooppss, Project Team Leader** was invited as a guest on **8th August, 2015** to aware students about the importance of cyber securities. And he gave more ideas about his concepts in cyber security hacking, watsapp hacking, social media hacking security tips, cookie grapping security, ATM security, ATM Hi-Jacking and Cyber Law awareness. The skilled talk was attended by all the 2nd year students from computer science department from IMS College, GZB.



The distinguished talker **Mr. Gurpreet Singh, Director of APTRON Solutions Pvt. Ltd** was invited as a guest on **22nd August 2015** to introduce students about APTRON Solutions and its offerings. And he help students to understand the importance of planning and guidance in their career choices.



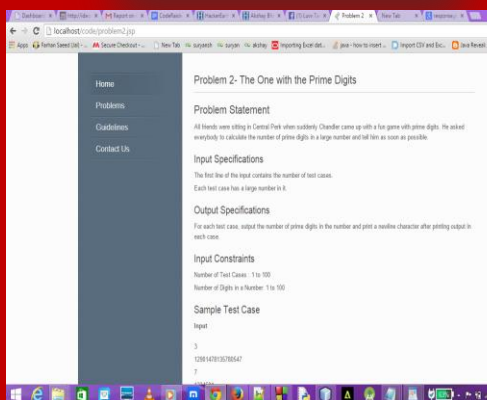
He have 12 years of experience in APTRON Solutions Pvt. Ltd and he worked in NPTEE Technologies, Softbit Solutions and Drishti-Soft before for more than 3 years. He offered the industrial visits as well as hands on training on the same day. He gave the importance of resume building as well as personality development. The skilled talk was attended by all the 2nd and 3rd year students from computer science department from IMS Engg. College, GZB.



The renowned speaker **Mr. Rahul Gupta, Managing Director of APTRON Solutions Pvt. Ltd** was invited as a guest on **22nd August 2015** to deliver a lecture about web Technologies and Big Data Hadoop. He have more than 3 years of experience in Big Data Hadoop as well as in Web Technologies. He have hands on experience in Cloudera Hadoop, Hadoop MapReduce, Hadoop Applications and many more. He gave overall idea about Big Data, Apache Hadoop Architecture, Hadoop Ecosystem, Hadoop setup and Installation, configuration and the administration of Hadoop to the 2nd and 3rd year students from computer science department from IMS College, GZB.



The **CodeRaiders** Programming Club of Department of Computer Science and Engineering organized an offline programming competition which was coordinated by **Akshay Bhasin, Aman Verma, Suryansh Kaushik** of 4th year and **Aviral Modi, Ajay Saini, Rafi, Nikhil Tiwary, Anjali** of 3rd year. The competition was held on **22nd August 2015** at 11:00 a.m in the college premises. The event CodeRaiders v3.0 was a 2 hours competition where **75 students** of 2nd and 3rd year participated. The event was held on an online portal made by the club where participants submitted their solutions online and it was checked automatically. The event saw huge number of submissions from the participants and at the three five teams managed to solve 5 questions each. 2nd year students **Shikhar Bajpai and Rohit Kumar** were the winners from 3rd year and students **Rishabh Prabhu and Nishika Chaudhary** were winners from 2nd year. All participants received participation certificates and the top three teams received merit certificates for their excellent performance. Faculty coordinators for the CodeRaider are **Ms. Arti Patle** and **Ms. Shaili Gupta**.



Snap of the problem statement for the programming competition



THE BYTE
SEP 2015

By : Anuj
Srivastva
B.Tech , CS1
Final Yr

1) Give quota or face consequences: Hardik Patel warns BJP in Gujarat

Gujarat's Patel community on Tuesday organised a mega rally under the leadership of 21-year-old Hardik Patel in Ahmedabad to press for reservations under the OBC quota. Patel warned that if the Patel community is not made eligible for quota, the BJP government in Gujarat will face consequences in 2017 polls.

2) Bengaluru civic polls: How taking voters for granted cost Congress and benefited BJP

This is one election that Karnataka Chief Minister Siddaramaiah will remember for long. As the Congress is in power in Karnataka, Siddaramaiah expected his party to win hands down in the elections to the Bruhat Bengaluru MahanagaraPalike (BBMP), which is responsible for the upkeep of the IT Capital of nation. Alas! The Congress not only lost the polls, but Siddaramaiah was forced to own responsibility for the dismal performance of the ruling party in Bengaluru.

3) India a very important market for us: IKEA

Global home furnishing major IKEA is betting big on India as the next major destination for its global expansion plans.

"India is a very important market for IKEA. It is the last big market for IKEA to enter and we believe that we can learn a lot from our expansion in the country, that will affect the whole company," IKEA deputy managing director Range and Supply Catarina Lowenadler told PTI.

4) Sania Mirza to be conferred Rajiv Gandhi Khel Ratna

Sania Mirza on Tuesday became only the second tennis player to be recommended for the prestigious Rajiv Gandhi Khel Ratna, while star cricketer Rohit Sharma and ace shooter Jitu Rai were among the 17 sportspersons picked for this year's Arjuna awards.

5) Online shopping goes social with Flipkart's Ping

Often wanted to consult a friend while shopping online? Flipkart, the largest online marketplace in the country, has now come up with a solution for the same aiming to make online shopping social.



6)Uber expands India footprint, drives into 4 more cities

As part of its India expansion plans, US-based taxi hailing app Uber has launched its services here and three other cities -- Guwahati, Nashik and Vadodara, taking the total to 22 cities in the country.

At present, India is the largest geographic market for Uber after the US.

7)Russia removes Wikipedia ban

Russia on Tuesday canceled a ban on the Russian-language Wikipedia, which barely lasted a few hours and caused a storm among Russian online users.

8)India-born SundarPichai is new CEO of Google

India-born SundarPichai was named CEO of Google on Tuesday by the company's founders Larry Page and Sergei Brin in course of a re-organization that created a mother company called Alphabet.

9)Study identifies new cheating method in MOOCs

While the proliferation of massive open online courses (MOOCs) has expanded learning opportunities for individuals around the world, the digital classroom is also subject to many of the same issues as the traditional one, such as cheating.

In a new working paper, researchers at MIT and Harvard University identify a new method of cheating specific to open onlinecourses and recommend a number of strategies that prove effective in preventing such cheating.

10)Cell phones help track of flu on campus

New methods for analyzing personal health and lifestyle data captured through wearable devices or smartphone apps can help identify college students at risk of catching the flu, say researchers at Duke University and the University of North Carolina-Chapel Hill.

11)TrueNorth chip sign of new possibilities in brain-like computing

IBM is telling the world about something quite ambitious: TrueNorth's neurons could revolutionize system architecture. Dharmendra S. Modha, IBM Fellow, has given us the overview of what TrueNorth is all about in his report in IBM Research.

12)Biophysicists take small step in quest for 'robot scientist'

Biophysicists have taken another small step forward in the quest for an automated method to infer models describing a system's dynamics -- a so-called robot scientist. Nature Communications published the finding -- a practical algorithm for inferring laws of nature from time-series data of dynamical systems.

JAVA

JAVA with ANDROID
JAVA on CLOUD



.NET with CLOUD

PHP

PHP on CLOUD

Embedded SYSTEM
EMBDROID
(Integrating-Embedded & Android)

VLSI

TECHNOLOGY

ROBOTICS

SQT

WITH QTP, QC, LR
DATABASE TESTING

MATLAB

ORACLE

10g Developer / 10g DBA
Oracle Apps R12

ANDROID

IPHONE



CCNA, CCNP

MCSE, MCITP

AUTOCAD

PRO-E / CATIA

BIGDATA

HADOOP

DATA

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**TRAINING BY INDUSTRY EXPERTS
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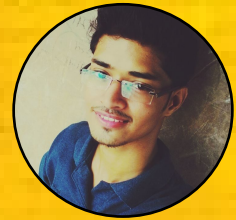
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