IT Bulletin Board

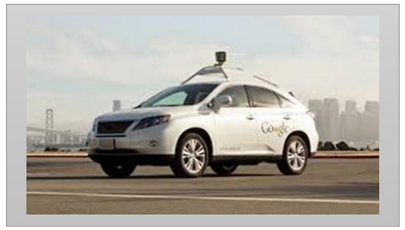
Cyber Security Awareness:

Computer security, also known as cyber security or IT security, is the protection of computer systems from the theft or damage to their hardware, software or information, as well as from disruption or misdirection of the services they provide.
Cyber security includes controlling physical access to the hardware, as well as protecting against harm that may come via network access, data and code injection. Also, due to malpractice by operators, whether intentional, accidental, IT security is susceptible to being tricked into deviating from secure procedures through various methods.
The field is of growing importance due to the increasing reliance on computer systems and the Internet,[4] wireless networks such as Bluetooth and Wi-Fi, and the growth of "smart" devices, including smartphones, televisions and tiny devices as part of the Internet of Things.

The National Cyber Security Policy 2013 is a policy framework by Ministry of Electronics and Information Technology (MeitY) which aims to protect the public and private infrastructure from cyber attacks, and safeguard "information, such as personal information (of web users), financial and banking information and sovereign data".

Techno-Corner

Advance Innovation
Self Driving Cars Rev Engines



This is the year of development of driverless cars shifted into high gear. Tesla pledged to include an enhanced, completely self-driving Autopilot in all models, and Uber was the first ride-sharing company to put driverless cars on the road, starting in Pittsburgh.

Traditional auto manufacturers got in on the action, too. Audi showed off how advanced its driverless tech was, and GM partnered up with Lyft — moves that might put Detroit into pole position in the self-driving race.

But it wasn't all easy riding: Apple made some noise early with its rumored "Project Titan," but reportedly ran out of gas by the year's end. Google's autonomous program had its first (extremely minor) accident, and a tragic crash killed the driver of a Tesla, reportedly in Autopilot mode.

Hacking gets even Worse

Large-scale hacks have unfortunately become relatively common in recent years, but 2016 managed to make them even more worrisome.

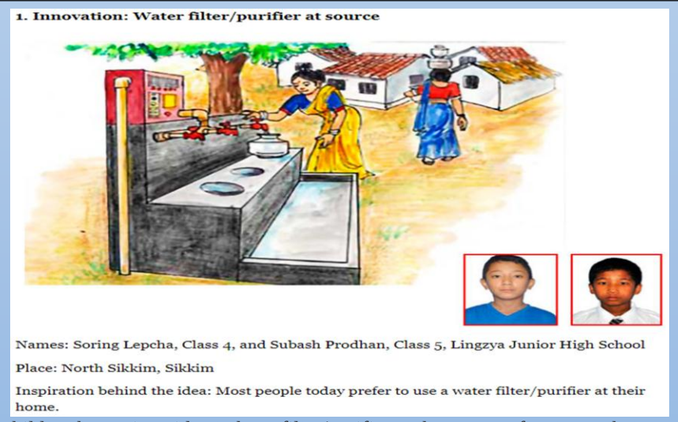
Various organizations (including WikiLeaks) were able to "weaponize" email breaches of political candidates with deliberate, precise leaks timed to maximize media coverage. The beleaguered Yahoo squandered whatever trust its users still had when it was revealed the company didn't publicly disclose a large-scale hack from 2014 until months after it found out.

And perhaps worst of all, the emergence of the Mirai botnet exposed the security nightmare that is the Internet of Things, with massive DDoS attacks like the one on Dyn endangering the internet itself.

If 2016 is any indication, the future of cybersecurity looks bleak. —PP

WOMAN POWER IN IT

IT INNOVATIONS



Both the children have given idea to have filter/purifier at the source of water so that everyone has access to clean water without having to make an investment in purchasing a filter/purifier.
Soring's idea is to have a centralised purification system at the point of distribution like water tank while Subash's idea is to have such purifiers attached to public taps.

For lac extraction generally the lac coated branches of host trees are cut, crushed and sieved to remove impurities.
Saurabh has made a machine, which can remove lac from the branches without breaking them. As a result, the amount of impurities is lesser in lac and it takes lesser effort to clean it.

No one wants to buy Twitter

Thanks to President-elect Donald Trump, it seemed like Twitter had perhaps never been so important as during the 2016 election. And yet Twitter as a company had a tumultuous year.

Two-time CEO and cofounder Jack Dorsey has only added 10 million active users to the platform since he returned in Oct. 2015, advertisers are becoming more and more disinterested, and top executives, including COO Adam Bain, have left.

While acquisition rumors are commonplace for Twitter, it seemed like it would become a reality with Disney, Google and Salesforce apparently circling. No dice, and that may in part be because of the trolling and harassment that continues to plague the site.

Meanwhile, Twitter has cut costs by laying off hundreds of employees and shutting down Vine in hopes of, finally, becoming profitable. —Kerry

SNAPDRAGON 820

Automotive Processors Debut

I-TECH UPDATE

Today, there are more than 20 million vehicles with Qualcomm Snapdragon modems deployed globally. Going beyond simply connecting us to the Internet from our vehicles, Qualcomm Technologies is now offering new automotive-grade napdragon system-on-chips (SoCs)—the Qualcomm Snapdragon 820 Automotive processor family, including the Snapdragon 820A infotainment processor and a version with an integrated X12 LTE modem capable of Category 12 speeds.

Both versions combine computer vision with object recognition in real time, to help support a safer driving experience. Both flavors are also designed to be “future-proof,” mainly due to a modular design concept that enables the head unit to adapt to technology evolutions seamlessly. Meet the Qualcomm Snapdragon 820 Automotive processor—making cars connected, smart, and aware. Here’s how.

The Snapdragon 820 Automotive processor is powered by the custom-architected 64-bit capable Qualcomm Kryo CPU. When compared to generic 64-bit solutions, the new Kryo CPU is engineered to provide 30 to 85 percent better performance, but uses up to 60 percent less power, supporting sustained high performance and throughput at lowered system power.

Through advanced camera and sensor processing, continuous warning and emergency services are always on alert. On-chip image signal processors support four to eight automotive camera sensors that are connected simultaneously and the intelligent rear view camera uses advanced computer vision to detect objects while backing up. Vehicle-to-mobile device (included in the V2X category) and vehicle-to-vehicle (V2V) warnings are also employed to avoid collisions through alerts sent to the vehicles, smartphone applications, or connected wearable devices.

Wireless connectivity has always been Qualcomm Technologies’ specialty, and with the debut of the Snapdragon 820 Automotive processor, we’ve created a new automotive landscape for communication, energy efficiency, infotainment, and safety. See you on the open road!

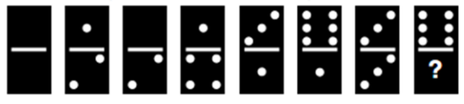
LOGIX

4 fathers, 2 grand-fathers and 4 sons went to watch the movie. What is the minimum number of the tickets they need to buy?

Answer will be published in the next issue

Previous puzzles answer: 1,3,9,27,81,243,729 and 7 weights

Which number replaces the question mark?



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TECHNO-DRISHTEE

AN IT-CHRONICLE

New Year Edition JAN’16-APR'16

DEPARTMENT OF INFORMATION TECHNOLOGY

IT focuses on information systems and information management. Information Technology is particularly important in the "service" industries such as banking, insurance, and communications. The majority of new jobs in recent years have been in these service industries. The purpose of this B.Tech is to provide the skills of applying advanced design, development, implementation and / or maintenance strategies and techniques in the development of Information Technology solutions; and to effectively manage and administer Information Technology. Presently this department is nurturing the talents of approx. 300 students of different semesters and is dedicated to impart quality education to the students in the field of Information Technology and transforming them from students to technocrats and entrepreneurs.

DEPARTMENT VISION AND MISSION

VISION

To develop competent IT professionals catering to the needs of Industry and society in a global perspective.

MISSION

To attain academic & professional excellence with collective efforts of all stake holders through:

M1: Dissemination of basic concepts and analytical skills.

M2: Exposure to new tools in the area of Information Technology.

M3: Effective interaction with industry for better employability.

M4: Inculcating values and professional ethics with social responsibility.

Facebook becomes a global power

Its power to transform how we consume information enabled the spread of propaganda at a pivotal moment in United States history, creating political echo chambers where misinformation thrived. Its solar-powered Aquila drone flew for the first time — demonstrating a technology that will bring Facebook-controlled internet to remote parts of the world.

Messenger, Facebook's standalone messaging app, expanded beyond 1 billion users. The company threw its weight behind live video, allowing Facebook's mobile app users to broadcast their lives through their smartphone cameras, and showed its vision for virtual reality. And it debuted artificial intelligence technology that can describe photographs to the blind.

IN THIS ISSUE

From the Editor's Pen

Welcoming the New Year 2016 and wishing all a very Happy New Year 2016, I take my pen to jot down new words in this year’s edition with new enthusiasm.

We, the ITians at GLBAJAJ, have dedicated this issue to IT innovations that have made India cheer.

Apart from this, this issue contains information on world’s latest vulnerabilities in IT and hacking information,how Facebook has become a household name globally and a global power has been well illustrated .

We are thankful to the students and faculty members of Department of IT, GLBITM for their valuable inputs, and we welcome suggestions and feedback that will help us improve further. We can be reached at tdristee@glbitm.org.