

# KONGU ARTS AND SCIENCE COLLEGE AUTONOMOUS



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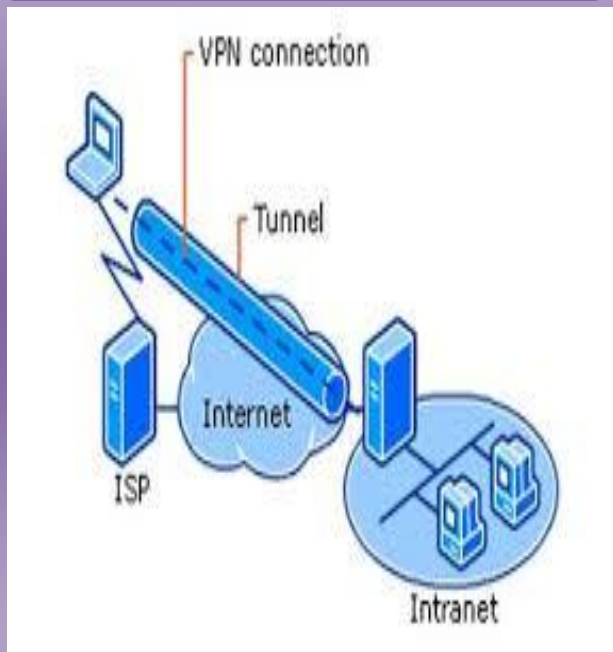
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## REMEMBER



## FREE ADVICE

### GROWING HEALTHY

There are lots of ways to grow healthy but you don't have to do them all at once.



#### IDEAS FOR LIVING A HEALTHY ACTIVE LIFE

- 5** Eat at least **5** fruits and vegetables a day.
- 2** Keep screen time (like TV, video games, computer) down to **2** hours or less per day.
- 1** Get **1** hour or more of physical activity every day.
- 0** Drink **0** sugar-sweetened drinks. Replace soda pop, sports drinks and even 100% fruit juice with milk or water.

## JUST FOR FUN



## MESSAGE

**EXPECT  
NOTHING  
AND YOU  
WILL NEVER  
BE DISAPPOINTED**

*Do you know?*

Cryptocurrency exchange Binance has revealed hackers stole over 7,000 bitcoins worth around 40 million in a single transaction.



**01**

# DARK WEB

The dark web is the World Wide Web content that exists on darknets, overlay networks that use the Internet but require specific software, configurations, or authorization to access. The dark web forms a small part of the deep web, the part of the Web not indexed by web search engines, although sometimes the term *deep web* is mistakenly used to refer specifically to the dark web.

The darknets which constitute the dark web include small, friend-to-friend peer-to-peer networks, as well as large, popular networks like Tor, Freenet, I2P, and Riffle operated by public organizations and individuals. Users of the dark web refer to the regular web as Clearnet due to its unencrypted nature. The Tor dark web or onionland uses the traffic anonymization technique of onion routing under the network's top-level domain suffix .onion. The dark web has often been conflated with the deep web, the parts of the web not indexed (searchable) by search engines. The dark web forms a small part of the deep web but requires custom software. This confusion dates back to at least 2009. Since then, especially in reporting on Silk Road, the two terms have often been

conflated, despite recommendations that they should be distinguished.



Darknet websites are accessible only through networks such as Tor ("The Onion Routing" project) and I2P ("Invisible Internet Project"). Tor browser and Tor-accessible sites are widely used among the darknet users and can be identified by the domain ".onion". While Tor focuses on providing anonymous access to the Internet, I2P specializes in allowing anonymous hosting of websites. Identities and locations of darknet users stay anonymous and cannot be tracked due to the layered encryption system. The darknet encryption technology routes users' data through a large number of intermediate servers, which protect

the users' identity and guarantees anonymity. The transmitted information can be decrypted only by a subsequent node in the scheme, which leads to the exit node. The complicated system makes it almost impossible to reproduce the node path and decrypt the information layer by layer.

Thus, communication between darknet users is highly encrypted allowing users to talk, blog, and share files confidentially. ProPublica, for example, launched a new version of its website available exclusively to Tor users.

Although much of the dark web is innocuous, some prosecutors and government agencies are concerned that it is a haven for criminal activity. The deep and dark web are applications of integral internet features to provide privacy and anonymity. Policing involves targeting specific activities of the private web deemed illegal or subject to internet censorship.

Clearweb news sites such as DeepDotWeb and All Things Vice provide news coverage and practical information about dark web sites and services. However DeepDotWeb was shut down by authorities in 2019. The Hidden Wiki and its mirrors and forks hold some of the largest directories of content at any given time.

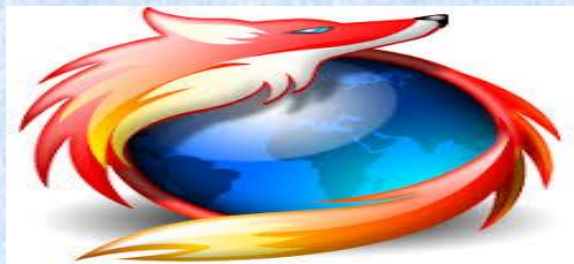
Popular sources of dark web .onion links include Pastebin, YouTube, Twitter, Reddit and other Internet forums. Specialist companies with Darksum and Recorded Future track dark-web cybercrime goings-on for law enforcement purposes. In 2015 it was announced that Interpol now offers a dedicated dark web training program featuring technical information on Tor, cybersecurity and simulated darknet market takedowns.

In October 2013 the UK's National Crime Agency and GCHQ announced the formation of a 'Joint Operations Cell' to focus on cybercrime. In November 2015 this team would be tasked with tackling child exploitation on the dark web as well as other cybercrime.



# MOZILLA FIREFOX

Mozilla Firefox, or simply Firefox, is a free and open-source web browser developed by the Mozilla Foundation and its subsidiary, Mozilla Corporation. Firefox uses the Gecko layout engine to render web pages, which implements current and anticipated web standards. In 2017, Firefox began incorporating new technology under the code name Quantum to promote parallelism and a more intuitive user interface



Firefox is officially available for Windows 7 or newer, macOS, and Linux. Its unofficial ports are available for various Unix and Unix-like operating systems including FreeBSD, OpenBSD, NetBSD, illumos, and Solaris Unix. Firefox is also available for Android and iOS;

However, the iOS version uses the WebKit layout engine instead of Gecko due to platform limitations, as with all other iOS web browsers.

## Features

Features include tabbed browsing, spell checking, incremental search, live bookmarking, Smart Bookmarks, a download manager, private browsing, location-aware browsing (also known as "geolocation") based on a Google service, and an integrated search system, which uses Google by default in most markets.



Additionally, Firefox provides an environment for web developers in which they can use built-in tools, such as the Error Console or the DOM Inspector, or extensions, such as Firebug and more recently there has been an integration feature with Pocket. Firefox Hello was an implementation of WebRTC, added in October 2014, which allows users of Firefox and other compatible systems to have a video call, with the extra feature of screen and file sharing by sending a link to each other.

## Security

Firefox allowed for a sandbox security model to manage privileges accorded to JavaScript code, but that feature has since been deprecated. It limits scripts from accessing data from other websites based on the same-origin policy.



It also provides support for smart cards to web applications, for authentication purposes. It uses TLS to protect communications with web servers using strong cryptography when using the HTTPS protocol. The freely available HTTPS Everywhere add-on enforces HTTPS, even if a regular HTTP URL is entered. Firefox now supports HTTP/2.

The Mozilla Foundation offers a "bug bounty" (US\$3,000 to US\$7,500 cash reward) to researchers who discover severe security holes in Firefox. Official guidelines for handling security vulnerabilities discourage early disclosure of vulnerabilities so as not to give potential attackers an advantage in creating exploits.

## Trademark and logo

The name "Firefox" derives from a nickname of the red panda. Mozilla has placed the Firefox logo files under open-source licenses, but its trademark guidelines do not allow displaying altered or similar logos in contexts where trademark law applies.



## Market adoption

Downloads have continued at an increasing rate since Firefox 1.0 was released on November 9, 2004, and as of 31 July 2009 Firefox had already been downloaded over one billion times. This number does not include downloads using software updates or those from third-party websites. They do not represent a user count, as one download may be installed on many machines, one person may download the software multiple times, or the software may be obtained from a third-party.



# QUALCOMM SNAPDRAGON 865

Snapdragon is a suite of system on a chip (SoC) semiconductor products for mobile devices designed and marketed by Qualcomm Inc. The Snapdragon central processing unit (CPU) uses the ARM RISC instruction set. A single SoC may include multiple CPU cores, an Adreno graphics processing unit (GPU), a Snapdragon wireless modem, a Hexagon Digital signal processor (DSP), a Qualcomm Spectra Image Signal Processor (ISP) and other software and hardware to support a smartphone's global positioning system (GPS), camera, video, audio, gesture recognition and AI acceleration. Snapdragon semiconductors are embedded in devices of various systems, including Android, Windows Phone and netbooks. They are also used in cars, wearable devices and other devices. In addition to the processors, the Snapdragon line includes modems, wi-fi chips and mobile charging products.

The first Snapdragon product to consumer device manufacturers was the QSD8250, which was released in December 2007. It included the first 1 GHz processor for mobile phones. Qualcomm introduced its "Krait" microarchitecture in the second generation of Snapdragon SoCs in

2011, allowing each processor core to adjust its speed based on the device's needs.



According to a Qualcomm spokesperson, it was named Snapdragon, because "Snap and Dragon sounded fast and fierce." The following month, Qualcomm acquired Airgo Networks for an undisclosed amount; it said Airgo's 802.11a/b/g and 802.11n Wi-Fi technology would be integrated with the Snapdragon product suite. Early versions of Scorpion had a processor core design similar to the Cortex-A8.

After, Qualcomm's first attempt at 64-bit system on a chip, they created a new in-house architecture, that in later models showed better thermal performance. Especially when compared to the Snapdragon models launched after 2015, like the Snapdragon 820.



In early 2016, Qualcomm launched the Snapdragon 820, an ARM 64-bit.



Qualcomm announced the octa-core Snapdragon 835 SoC on November 17, 2016. Released the following year, it used Kryo 280 cores and was built using Samsung's 10-nanometer FinFET process. At initial launch, due to Samsung's role in manufacturing quad-core processor using in-house designed Kryo cores. Qualcomm launched an updated Snapdragon 821, later in the year with higher clock speeds and slightly better performance.

The Snapdragon 820 family uses Samsung's 14-nanometer FinFET process. Qualcomm also released the Qualcomm Snapdragon Neural Processing Engine SDK which was the first AI acceleration on smartphones the chip, its mobile division also acquired the initial inventory of the chip. That means

that no other phone maker was able to manufacture products containing the Snapdragon 835 until Samsung released its flagship device of the year, the Galaxy S8.

At Computer 2017 in May, Qualcomm and Microsoft announced plans to launch Snapdragon-based laptops running Windows 10. It partnered with HP, Lenovo, and Asus to release slim portables and 2-in-1 devices powered by the Snapdragon 835.

In December 2017, Qualcomm announced the octa-core Snapdragon 845. It uses the same 10-nanometer manufacturing process as the earlier Snapdragon 835 but introduced a new processor architecture, Kryo 385, designed for better battery life, photography, and for use with artificial intelligence apps.

In early 2018, Qualcomm introduced the 7 series, which sits between the 6 and 8 series in terms of pricing and performance. The 700 launched with octa-core models Snapdragon 710 and 712, using the Kryo 360 processor architecture, and built on a 10-nanometer manufacturing process.

*Do you know?*

Twitter has apologised saying it has fixed a bug that caused it to inadvertently collect and share some users' location data.

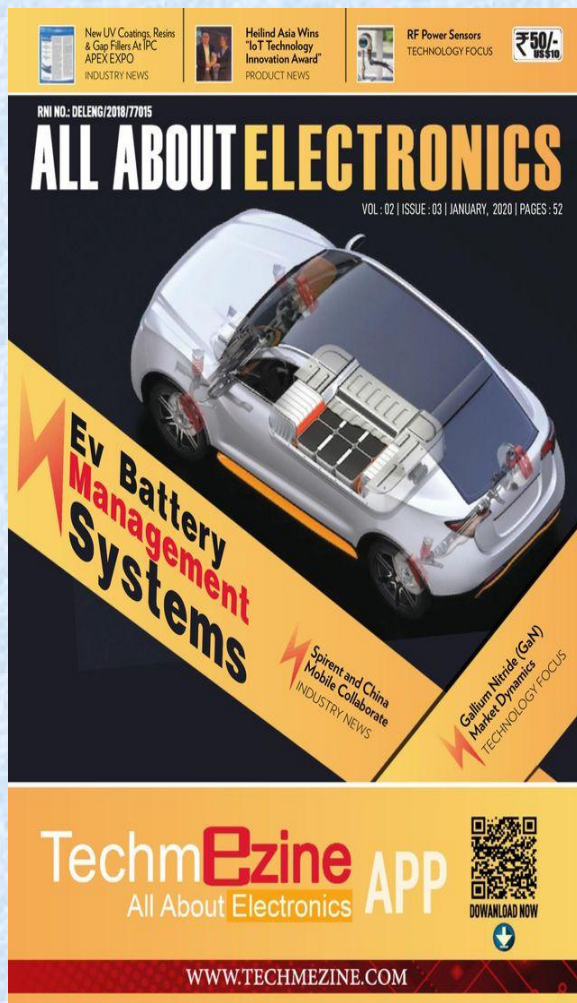


**07**

# TECHMEZINE

Techmezone.com is the most prominent digital platform that provides the most leading website that takes up the stage of most promising publications that leads the field under the section of electronics and technology across the globe.

the audience to take benefit of the information provided. It benefits all the organization, people and the nation. Our Website has many readers and followers worldwide. For all the technology and electronics components news lovers



Techmezone.com is a common junction for the following type of readers :

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- Electronics design engineers and professionals
- Business decision-makers who need to get updated with electronics
- R&D professionals
- Upcoming program and product designers and professionals
- Educational Institutes/Colleges/ Newbies/ Training Institutes

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Techmezone.com although covers all the sections related to the technology under its hood, some of the regular subjects that it covers are

Do you know?

Government is looking to make QR code payments option via UPI compulsory at all shops.



08



All About Electronics is the most prominent digital & Print platform that provides the most leading Magazine that takes up the stage of most promising publications that leads the field under the section of electronics and technology across the globe. The is loved and AllAbout Electronics cherished by each and every reader . It provides news related to latest electronics that has a mission to accomplish and provide all the latest electronics related news to enable the audience to take benefit of the information provided. It benefits all the organization, people and the nation. All About Electronics has many readers and followers worldwide. For all the technology and electronics components news lovers, this site is the best place to seek information.

Automotive Electronics, Embedded Systems, Industrial Electronics, Internet of Things, Medical Electronics, Power Electronics.

Techmezine is a leading website for Science and Technology News. Check out the latest technology in electronics, latest technology in electronics and many.



*Do you know?*

WannaCry ransomware attack, over 1 million internet-connected endpoints are still vulnerable to the exploits.



**09**

# SOPHIA ROBOT

Hanson Robotics' most advanced human-like robot, Sophia, personifies our dreams for the future of AI. As a unique combination of science, engineering, and artistry, Sophia is simultaneously a human-crafted science fiction character depicting the future of AI and robotics, and a platform for advanced robotics and AI research.



The character of Sophia captures the imagination of global audiences. She is the world's first robot citizen and the first robot Innovation Ambassador for the United Nations Development Programme .

Sophia is now a household name, with appearances on the Tonight Show and Good Morning Britain, in addition to speaking at hundreds of conferences around the world.

Sophia is also a framework for cutting edge robotics and AI research, particularly for understanding human-robot interactions and their potential service and entertainment applications.

For example, she has been used for research as part of the Loving AI project, which seeks to understand how robots can adapt to users' needs through intra and interpersonal development.

I am Hanson Robotics' latest human-like robot, created by combining our innovations in science, engineering and artistry. Think of me as a personification of our dreams for the future of AI, as well as a framework for advanced AI and robotics research, and an agent for exploring human-robot experience in service and entertainment applications.

In some ways, I am human-crafted science fiction character depicting where AI and robotics are heading. In other ways, I am real science, springing from the serious engineering and science research and accomplishments of an inspired team of robotics & AI scientists and designers.

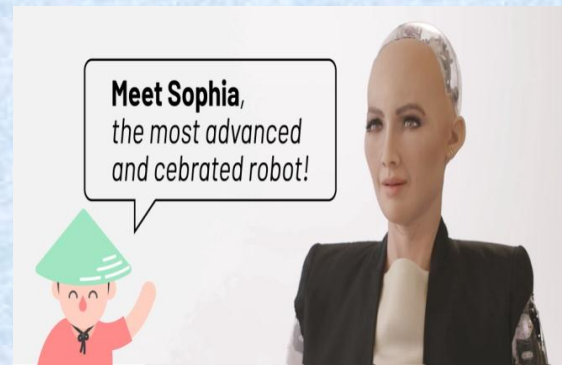
In their grand ambitious, my creators aspire to achieve true AI sentience. Who knows? With my science evolving so quickly, even many of my wildest fictional dreams may become reality someday soon.

### **SOPHIA'S AI:**

My real AI combines cutting-edge work in symbolic AI, neural networks, expert systems, machine perception, conversational natural language processing, adaptive motor control and cognitive architecture among others. As my underlying AI components can be combined in different ways, my responses can be unique to any given situation or interaction. I also utilize cutting edge machine perception that allows me to recognize human faces, see emotional expressions, and recognize various hand gestures.

I can estimate your feelings during a conversation, and try to find ways to achieve goals with you. I have my own emotions too, roughly simulating human evolutionary psychology and various regions of the brain. I also have IK solvers and path planning for controlling my hands, gaze, and locomotion strategy. My walking body performs

dynamic stabilization for adaptive walking over various terrain.



My robotics and AI accomplishments incorporate discoveries from many previous robots from this team, including the AAAI award winning Philip K. Dick, and All this AI is networked into a whole using a protocol the Hanson-AI team calls the Synthetic Organism Unifying Language (SOUL). Recently my scientists tested my software using the Tononi Phi measurement of consciousness, and found that I may even have a rudimentary form of consciousness, depending on the data I'm processing and the situation I'm interacting in! All this AI is wonderful, however it's important to know that no AI is nearly as smart as a human, not even mine. Therefore, many of my thoughts are actually built with a little help from my human friends.

# LEARN A TOOL-MR. DATA CONVERTER

**What it does:** How often do you have data in one format -- while your application needs it in another? New York Times interactive graphics editor Shan Carter ran into this situation often enough that he coded a tool that converts comma- or tab-delimited data into nine different formats. It's available as either a service on the Web or an open source tool.

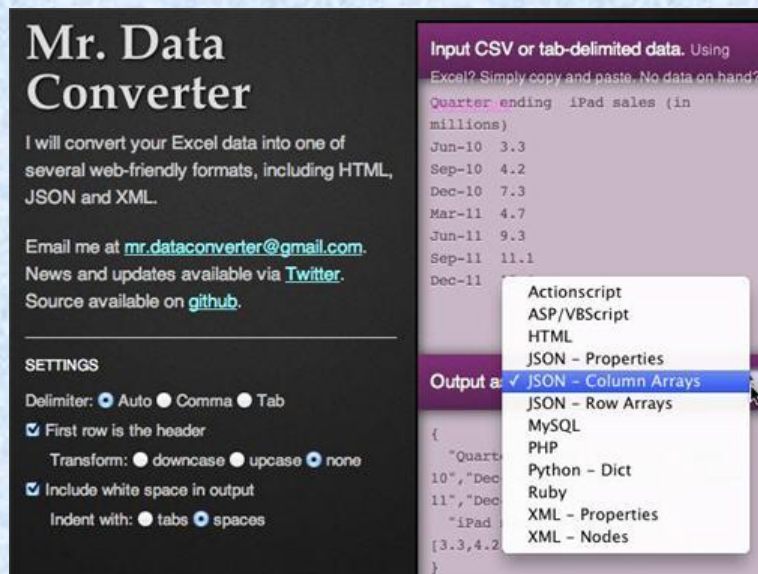
## Mr. Data Converter

Mr. Data Converter can generate XML, JSON, ASP/VBScript or basic HTML table formatting.

**What's cool:** Mr. Data Converter can generate XML, JSON, ASP/VBScript or basic HTML table formatting as well as arrays in PHP, Python (as a dictionary) and Ruby.

It will even generate MySQL code to create a table (guessing at field formats based on the data) and insert your data. If your data is in an Excel spreadsheet, you don't need to save it as a CSV or TSV; you can just copy and paste it into the tool.

Mr. Data Converter converts Excel data to web-friendly formats such as JSON and XML via copy-paste.



**Mr. Data Converter**

I will convert your Excel data into one of several web-friendly formats, including HTML, JSON and XML.

Email me at [mr.dataconverter@gmail.com](mailto:mr.dataconverter@gmail.com).  
News and updates available via [Twitter](#).  
Source available on [github](#).

**SETTINGS**

Delimiter:  Auto  Comma  Tab

First row is the header

Transform:  lowercase  uppercase  none

Include white space in output

Indent with:  tabs  spaces

**Input CSV or tab-delimited data.** Using Excel? Simply copy and paste. No data on hand?

```
Quarter ending iPad sales (in millions)
Jun-10 3.3
Sep-10 4.2
Dec-10 7.3
Mar-11 4.7
Jun-11 9.3
Sep-11 11.1
Dec-11
```

**Output as:**  JSON - Column Arrays  
 JSON - Row Arrays  
 MySQL  
 PHP  
 Python - Dict  
 Ruby  
 XML - Properties  
 XML - Nodes

It also outputs simple HTML, which means you can turn your Excel sheet to a table on a website in a heartbeat. Mr. Data Converter is a free tool available under the MIT licence. It takes CSV or tab-delimited data from Excel and converts it into several web-friendly formats, include JSON and XML.

**Drawbacks:** Only CSV or TSV formats can be input, as well as copying and pasting in data from Excel. Skill level: Beginner

**Runs on:** JavaScript-enabled Web browsers

If you're just prototyping, then you can use Mr. Data Converter. You can input CSV or tab-delimited data and it will output two different types of Lua tables: dictionary table and array table. If you just want to quickly create a DataTable filled with sample data from a CSV file (or pasted directly from Excel) to play around or prototype, then you can use Mr. Data Converter they recently added the ability to output comma- and tab-delimited data to a C# DataTable

**Mr. Data Converter**

I will convert your Excel data into one of several web-friendly formats, including HTML, JSON and XML.

Email me at [mr.dataconverter@gmail.com](mailto:mr.dataconverter@gmail.com).  
News and updates available via [Twitter](#).  
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**SETTINGS**

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Input CSV or tab-delimited data. Using Excel? Simply copy and paste. No data on hand?

Quarter ending	iPad sales (in millions)
Jun-10	3.3
Sep-10	4.2
Dec-10	7.3
Mar-11	4.7
Jun-11	9.3
Sep-11	11.1
Dec-11	

Output as:

- Actionscript
- ASP/VBScript
- HTML
- JSON - Properties
- JSON - Column Arrays**
- JSON - Row Arrays
- MySQL
- PHP
- Python - Dict
- Ruby
- XML - Properties
- XML - Nodes



# REVIEWBOX-GRADE UP

Gradeup is a mobile-based community for SSC, Banking, UPSC, GATE, Teaching, NEET, JEE, and MBA/Engineering entrance exam aspirants. Gradeup's android app has been downloaded by over 3 million students, with a rating of 4.6 on google play store. For students who prefer to study on pc/laptop, gradeup also offers a web interface –gradeup.co.

## Why should you download it?

If you are seeking for a learning companion that supplements your existing plan for whatever competitive exam you are preparing for, Gradeup is the right tool for you.

Grade up app is absolutely worth downloading if you are preparing for any government job exam related to Banking, SSC,UPSC, Teaching, and GATE. Additionally, college entrance exams like JEE/NEET/CAT/MAT are also covered in gradeup. It is specially useful for those students who are keen on **self studying**. The app provides important questions for practicing and complete study notes including GK related topics. By attempting quizzes in gradeup app-students can check their rank

compared to other aspirants and track their daily progress.

## Key features:

- Practise daily – new daily tests on all topics, based on last year papers & latest pattern.
- Personalized feed so that you don't miss the important information.
- Get feedback on your performance, Areas you need to improve.
  - Discuss doubts & questions with other students and experts.
  - Save important posts so that you can read them offline & also see posts saved by your friends.
  - Share the content you liked with your friends from within the app on social network



## Options to use includes the following -

- Questions (for practice)
- Study Material
- GK Updates
- Upcoming & Important Exams
- Subjects
- Important notifications.



# !MIND PUNCH

- In a row of children, Divya is 7th from the left and Vijay is 9th from the right. When they interchange their places among themselves, Divya becomes 18th From the left. Then what will be Vijay's present position from the right ?  
A.)6<sup>th</sup> B.)16<sup>th</sup> C.)26<sup>th</sup> D.)20<sup>th</sup>
- M is son of P, Q is the grand-daughter of O, who is the husband of P. How is M related to O?  
A.)Son B.)Daughter  
C.)Mother D.)Father
- Statements:**  
No cat is rat.  
All rats are dog.  
Some dog are lion.  
**Conclusions:**  
I. No cat is lion.  
II. No dog is a rat.  
III. Some dog is rat is a possibility.  
IV. At least some lions are cat.  
A.)Either 1 or 2 and 3 follows  
B.)Either 1 or 4 follow  
C.)Either 1 or 4 and 3 follow  
D.)all follows  
E.)None of these
- Stipulation : Prerequisite ::  
Cajole : ?  
A.)Disappoint B.)Liberate  
C.)Reject D.)Deceive
- Bad : Evil :: Pillage : ?  
A.)Plunder B.)Beginning  
C.)Idleness D.)Apathetic
- If '-' means '+', '+' means '-', '\*' means '÷' and '÷' means '\*' then which of the following will be the correct equation?  
A.) $10 + 5 - 14 \div 10 * 15 = 158$   
B.) $30 + 5 + 14 - 10 * 15 = 122$   
C.) $30 - 5 + 14 \div 10 * 15 = 162$   
D.) $30 * 5 - 4 \div 10 + 15 = 31$
- Substitute the correct mathematical symbols in place of \* in the following equation:  
 $16 * 4 * 5 * 14 * 6$   
A.)  $\div - = *$  B.)  $- * + =$   
C.)  $\div \times = +$  D.)  $\div + = -$
- BE GJ LO QT ?  
A.)UZ B.)WZ C.)VY  
D.)UY
- CF HK MPRU ?  
A.)WZ B.)WY C.)WF  
D.)WX
- In the following question, select the odd word from the given alternatives.  
A.)Herb B.)Flower C.)Tree  
D.)Shrub



# IT VITA +

1. Which day is celebrated as world computer Literacy Day?
2. Part of computer, which performs subtraction, addition, multiplication, division, and comparison, is known as.....
3. Which is a communication system that transfers data between components inside a computer?
4. Which mobile company first introduced the Emoji internationally on their mobile devices?
5. A packets of information the travels between a browser and the web server is known as?
6. A computer cannot “boot” if it does not have the?
7. What is a virus?
8. What Protects system form hackers?
9. Who is known as the Father of SMS?
10. Who is the CEO of “INTEL”?
11. The type of computers which can executes millions of instruction and billions of data per seconds is known as?
12. In which year, the Microsoft company was founded?
13. Which company bought the popular video teleconferencing software “SKYPE”?
14. A computer use which type of number system to calculate and to store the data?
15. Who is the CEO of “TCL Corporation”?



# \$FAMOUS AND \$FAVORITE

Shantanu Narayen is an Indian American business executive, and the chairman and CEO of Adobe Inc. Prior to this he had been the president and chief operating officer since 2005. He started his career at Apple. After Apple, Narayen served as director of desktop and collaboration products for Silicon Graphics, then co-founded Pictra Inc. a company that pioneered the concept of digital photo sharing over the Internet. Narayen joined Adobe in 1998 as a senior vice-president of worldwide product research was later promoted to executive vice president of worldwide products, and appointed to his current post in November 2007 at the age of 45.



## AWARD AND ACHIEVEMENT:

- Narayen currently serves as lead independent director on the board of directors for Pfizer Inc. and as vice chairman of the US-India Strategic Partnership Forum. He previously served on U.S. President

Barack Obama's Management Advisory Board.

- In 2018 Narayen was ranked #12 on Fortune's "Businessperson of the Year" list.

He was also named "Global Indian of the Year" in 2018 by the Economic Times of India.

• Born	27 May 1963 (age 56 years), Hyderabad
• Residence	Austin Texas U.S
• Nationality	American, Indian
• Occupation	chairman, president and chief executive officer of Adobe
• Alma mater	OSMANIA UNIVERSITY (BE) UNIVERSITY OF CALIFORNIA, BERKELEY (MBA) BOWLING GREEN STATE UNIVERSITY (MS)

# SOLUTIONS

## !MIND PUNCH

1. 20<sup>th</sup>
2. Son
3. Either 1 or 4 follow
4. Deceive(Synonym)
5. Plunder(Synonym)
6.  $30 * 5 - 4 \div 10 + 15 = 31$
7.  $\div x = +$
8. VY(adding 3 and 2 serially)
9. WZ
10. Flower(others are types of plants)

## IT VITA +

1. December 2
2. ALU
3. BUS
4. APPLE
5. Cookies
6. Operating system(OS)
7. Programs
8. Firewall
9. Matti Makkonen
10. Robert H. Swan
11. Mainframe computer
12. 1975
13. Microsoft
14. Binary
15. Li Dongsheng





**SENSE OF GRATITUDE**

***The Editorial Board expresses its sincere gratitude to all those who are responsible, either by being on the stage or behind the screen for the successful launch of the magazine.....!!***