



KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)



80
ISSUE

TECHNICAL
SUPPORT



DBT
S **PONSORED**
TAR DEPARTMENT

DEPARTMENT OF **C**OMPUTER **SCIENCE** (UG)



CYBER CREW**S** ASSOCIATION
IT UNLIMITED MAGAZINE
A BIMONTHLY BONANZA
JUNE - JULY'20



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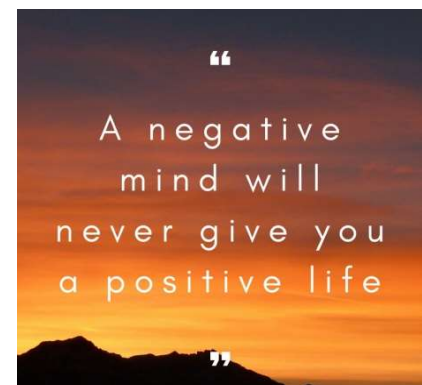
REMEMBER

FREE ADVICE



JUST FOR FUN

MESSAGE



GOVT LAUNCHES APP TO TELL USERS IF THEY WERE NEAR CORONAVIRUS POSITIVE PERSON

01

Privacy and Security Backlash

Zoom has exploded in popularity as people turn to video calling software amid the ongoing coronavirus pandemic. The moment of huge growth has seen Zoom rocket to the top of iOS and Android app stores as people gather around it for yoga classes, school lessons, and virtual nights out. Even the UK government has been holding daily cabinet meetings over Zoom.



Zoom has battled security and privacy concerns before. Apple was forced to step in and silently remove Zoom software from Macs last year after a serious security vulnerability let websites hijack Mac cameras. Each Zoom call has a randomly generated ID number between 9 and 11 digits long that's used by participants to gain access to a meeting. Researchers have found that these meeting IDs are easy to guess and even brute forceable, allowing anyone to get into meetings. Part of this ease of use has

led to the “Zoombombing” phenomenon, where pranksters join Zoom calls and broadcast porn or shock videos. At fault here are Zoom’s default settings which don’t encourage a password to be set for meetings, and allow any participants to share their screen. Zoom adjusted these default settings for education accounts last week, “in an effort to increase security and privacy for meetings.” For everyone else, you’ll need to tweak your Zoom settings to ensure this never happens.

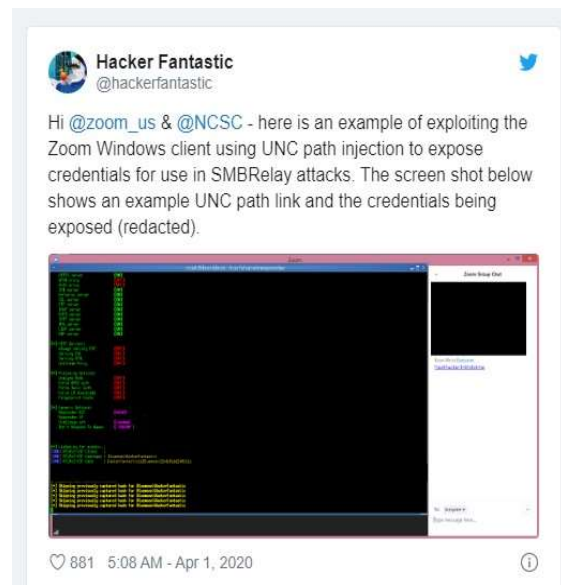
Zoombombing was the first of many recent Zoom security and privacy concerns, though. User information is also reportedly being leaked because of an issue with how Zoom groups contacts.

Perhaps the most damning issue came to light. While Zoom still states on its website that you can “secure a meeting with end-to-end encryption,” the company was forced to admit it’s actually misleading people. “It is not possible to enable E2E encryption for Zoom video meetings,” said a Zoom spokesperson in a statement to The Intercept, after the publication revealed Zoom is actually using transport encryption rather than end-to-end encryption.

Security researcher discovers two Zoom vulnerabilities amid growing popularity:

A security researcher has disclosed vulnerabilities in Zoom, which is experiencing a record number of users amid the COVID-19 pandemic. The researcher, who is a former NSA hacker named Patrick Wardle, found two bugs that hackers can use to take over a Zoom user's Mac, and also allow them to control the webcam and microphone. Once the hacker gains control of the user's computer, they can install malware or spyware on it. The bugs exploit different ways that Zoom operates. For instance, since Zoom uses a way to install the Mac app without user interaction, hackers can inject the Zoom installer with malicious code. Further, the bugs are able to take advantage of the way Zoom handles the webcam and microphone on Macs. Wardle notes that a hacker can inject malicious software into Zoom and trick it to believe that the attacker has the same permissions as Zoom. Since Wardle has just recently gone public with these vulnerabilities, Zoom has yet to comment on them or provide a fix. It seems that as Zoom gains popularity amid the COVID-19 pandemic, issues around the platform are coming to the surface.

The screenshot shows the Windows username as Bluemoon Hacker/Fantastic. Immediately below, the NTLM hash appears, although Hickey redacted most of it in the image he posted.



A recent Vice report notes that Zoom is reportedly leaking users' email addresses and photos and giving strangers the ability to start a video call with them. Last week, another Vice report noted that Zoom was sending analytics data to Facebook. The platform had to then update its iOS app in response to the issue. Lawmakers in the U.S. have asked the platform to implement security measures as its popularity continues to surge.

Aarogya Setu App

The government has launched the 'AarogyaSetu' mobile app. The app will only detect fresh corona cases and alert only those who have been around the infected person. This app will help in finding the parameters with the technology used through voice. This includes the use of ultra-modern Bluetooth technology, algorithms, and artificial intelligence. This app is available in 11 languages. It has been launched on both Android and iOS platforms.



So far 30 lakh people have downloaded this app. Joint Secretary of the Ministry of Health, Luv Agarwal said that if you have downloaded this app, it will inform you as soon as you come in contact with Corona positive person.

NIC eGov Mobile Apps developed the app, this app comes under the health and fitness category, the size of the application is 3.6 Megabytes and it was launched on 2nd April

2020. It is available for both android and IOS platforms.

HOW AAROGYA SETU MOBILE APP WILL WORK

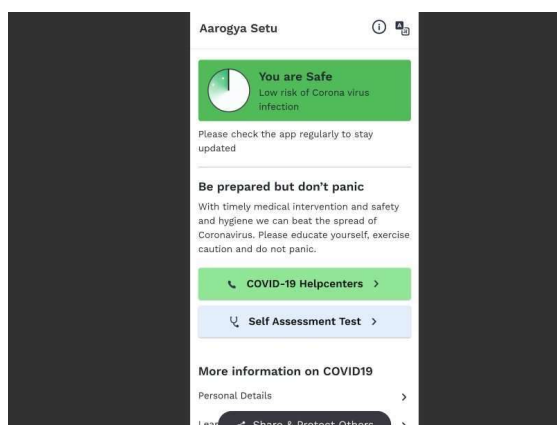
If a person is found infected with the coronavirus during treatment or other reasons, the mobile number of the infected person will be included in the register maintained by the Ministry of Health and this information will also be updated on the app. This app will help the government to take timely steps to assess the risk of COVID-19 infection and to quarantine the concerned person or region if necessary (Quarantine). The government said that users' information in the AarogyaSetu App will not be shared with anyone and privacy will be taken full care of.

How To Download AarogyaSetu Mobile App?

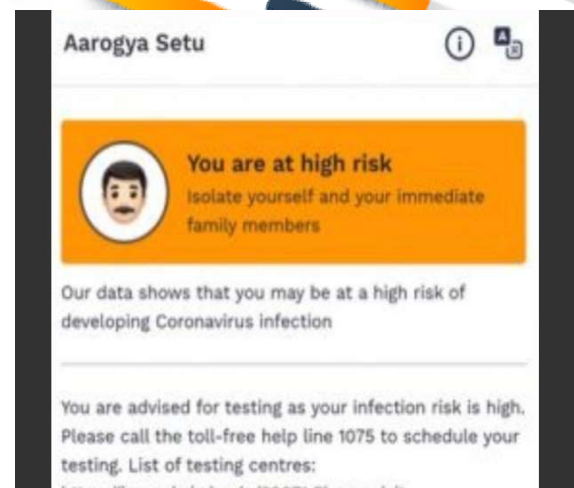
- If you are an Android phone user then you have to open google play store at your mobile.
- In case your are using iPhone then visit the apple app store.
- Now type "Arogya Setu" in the search box.
- The first result will appear on the screen will be an official app link of AarogyaSetu app.

- Click on the link, afterwards click on install button.
- After install, you can use the app.

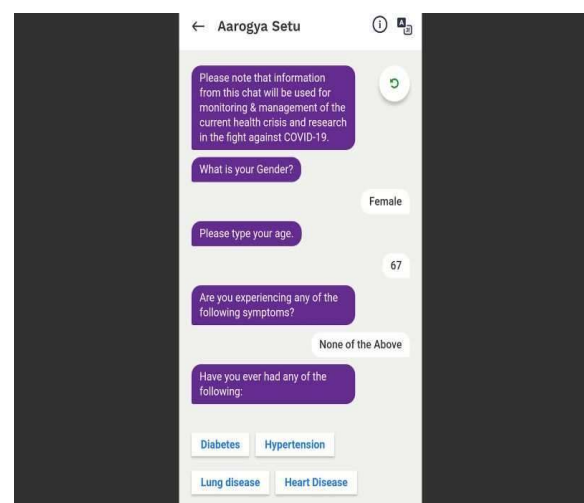
AarogyaSetu app is available in 11 Indian languages including English and Hindi. After installing it, open the app and select the desired language. The AarogyaSetu uses your mobile number, Bluetooth and location data for contact tracing and predicts whether you are at risk or not. The app works after you register your mobile number and verify it with an OTP. There is an optional form which asks for Name, Age, Profession and countries traveled outside in the last 30 days. Note that you can skip this form. However, if you wish to be a volunteer in the time of need then you have the option to enroll yourself as one.



If you are marked in Green with a text saying 'You are Safe' then there's nothing to worry about. You need to follow guidelines like social distancing and staying at home to prevent getting infected.



If you are marked in Yellow with a text saying 'You are at high risk', the app will suggest you to contact a helpline number in your state along with other guidelines.



To use this feature, tap on the option and then the app will open a chat window where it asks some questionnaire related to the user's current health and symptoms such as Gender, Age, Are you experiencing any of the following symptoms, etc.

Tap on the Covid-19 Help centres button and scroll down to location once in your city.

Deloitte

Amid rapid, disruptive change we believe that every company has become a technology company. Gain insights from Deloitte's published articles in leading business and technology publications that delve into new research and share perspectives from leading companies applying technology's promise for the future.



Deloitte CTO: Bill Briggs

Podcast: Modern CTO with Joel Beasley

Today we are talking to Bill Briggs, the CTO at Deloitte. And we discuss what it means to have human centered design, cultivating a vision of consistency to avoid change fatigue, and why they don't want to fail fast.

How virtual reality is changing the live music experience

In the last few years, musicians have been able to stream concerts to virtual reality headsets, allowing fans to enjoy the virtual spectacle from the comfort of their homes. Now some VR platforms are offering viewpoints and interactions that users could never get if they were at the venue.



Deloitte launches annual Tech Trends report: Ethics, digital twins and human experience platforms among the key trends

Enterprise Talk

The report, now in its eleventh year, looks at the opportunities for new technologies in business, the risks that they pose and the companies acting as pioneers for their use.

TechTarget

Companies are moving more applications than ever to the cloud, but many of these initiatives fail. Learn how to avoid making your own cloud migration mistakes.

From technological boom to human management: Tech trends that will mark 2020



Global Fashion Business Journal

From the emotional coefficient for computers to the importance of a global vision of business confidence. Deloitte's Tech Trends 2020 report analyzes the areas that will mark the future of technology this year.

Blockchain Trends

From buzzword to business, is 2020 the year blockchain will overcome its hype? Deloitte's just-released Tech Trends 2020 includes blockchain as a foundational technology of digital development.

CXO Today

Digital disruption appears to be the new constant across the world of business. From changing how enterprises interact with customers, to accelerating the pace of production and transaction, this phenomenon has rapidly changed the way companies innovate and grow, only to plateau once again and then repeat the same process.



CIO

To tackle digital initiatives, IT leaders are having to rethink and reorganize how work gets done. But driving change is about much more than just overhauling org charts and business processes.

Digital Twins and Interactive Experiences Lead Deloitte's Tech Trends for 2020.

Robotic Process Automation

Robotic process automation (or RPA) is a form of business process automation technology based on metaphorical software robots or artificial intelligence (AI) workers.



In traditional workflow automation tools, a software developer produces a list of actions to automate a task and interface to the back-end system using internal application programming interfaces (APIs) or dedicated scripting language. In contrast, RPA systems develop the action list by watching the user perform that task in the application's graphical user interface (GUI), and then perform the automation by repeating those tasks directly in the GUI. This can lower the barrier to use of automation in products that might not otherwise feature APIs for this purpose.

RPA tools have strong technical similarities to graphical user interface testing tools. These tools also automate interactions with the GUI, and often do so by repeating a

set of demonstration actions performed by a user. RPA tools differ from such systems that allow data to be handled in and between multiple applications, for instance, receiving email containing an invoice, extracting the data, and then typing that into a bookkeeping system.

Historic evolution is a form of automation, the same concept has been around for a long time in the form of screen scraping but RPA is considered to be a significant technological evolution of this technique in the sense that new software platforms are emerging which are sufficiently mature, resilient, scalable and reliable to make this approach viable for use in large enterprises (who would otherwise be reluctant due to perceived risks to quality and reputation). Hyperautomation is the application of advanced technologies like RPA, Artificial Intelligence, machine learning (ML) and Process Mining to augment workers and automate processes in ways that are significantly more impactful than traditional automation capabilities. Hyperautomation is the combination of automation tools to deliver work. Gartner's report notes that this trend

was kicked off with robotic process automation (RPA). The report notes that, "RPA alone is not hyper automation. Hyperautomation requires a combination of tools to help support replicating pieces of where the human is involved in a task." Robotic process automation 2.0, often referred to as "unassisted RPA," is the next generation of RPA related technologies. Technological advancements and improvements around artificial intelligence technologies are making it easier for businesses to take advantage of the benefits of RPA without dedicating a large budget for development work.

While unassisted RPA has a number of benefits, it is not without drawbacks. Utilizing unassisted RPA, a process can be run on a computer without needing input from a user, freeing up that user to do other work. However, in order to be effective, very clear rules need to be established in order for the processes to run smoothly.

According to Harvard Business Review, most operations groups adopting RPA have promised their employees that automation would not result in layoffs. Instead, workers have been redeployed to do more interesting work. One academic study highlighted that

knowledge workers did not feel threatened by automation: they embraced it and viewed the robots as team-mates. The same study highlighted that, rather than resulting in a lower "headcount", the technology was deployed in such away as to achieve more work and greater productivity with the same number of people.



Conversely, however, some analysts proffer that RPA represents a threat to the business process outsourcing (BPO) industry. The thesis behind this notion is that RPA will enable enterprises to "repatriate" processes from offshore locations into local data centres, with the benefit of this new technology. The effect, if true, will be to create high-value jobs for skilled process designers in onshore locations (and within the associated supply chain of IT hardware, data center management, etc.) but to decrease the available opportunity to low skilled workers offshore.

Staying Social When You're Forced To Isolate

As millions of us adapt to new lives in relative isolation, we're being forced to find increasingly creative ways to keep ourselves entertained. Luckily, social distancing doesn't mean we have to be lonely. And hanging out with friends doesn't have to be limited to phone calls and FaceTime. Hosting a remote game night or movie marathon is not only do-able, but easier than you might expect. With the right planning and a bit of creativity, you can have almost as much fun as the real deal.

Getting prepped

While virtual hangouts shouldn't require much more planning than IRL get-togethers, they do require a different type of prep. Instead of loading up on snacks for your guests, you'll need to make sure you have the right gear at the ready. It sounds obvious, but double check that everyone knows when you plan on starting, and what apps they need ahead of time. You don't want to keep the whole group waiting because you forgot your Zoom login, or didn't realize one of your green-bubble friends doesn't have FaceTime. If you can, send out calendar invites with relevant links and detailed instructions ahead of time.

Remote movie nights

In some ways, movie nights are the simplest kind of remote gathering to set up. Netflix and other streaming services are basically ubiquitous, so most of us already have the basics in place. The downside is that Netflix and most other major streaming platforms don't have their built-in multi-person viewing features, so arranging remote viewing parties do take a few extra steps.



Enter Netflix Party, a new Chrome extension that helps groups of friends sync up a Netflix stream. It's pretty simple – at least in theory. You install the extension, and send a link to your friends and Netflix Party will keep everyone's streams timed up. There's also a chat feature, so you and your friends can swap messages while you watch. But, since Netflix Party only works with Chrome, you'll either be stuck watching on your laptop, or you'll need to cast your screen or connect to your TV with an HDMI cable.

Netflix Party has recently had some technical issues, though, so you might need a backup plan just in case. And, the extension only works for Netflix, so if you want to watch something on another service, you'll have to find another workaround.

If that's the case, you can try the workaround a friend and I came up with while improvising a movie night with our partners, when we opted to manually sync up our feeds based on the timestamp. This takes a little more finessing, so it might not be ideal for larger groups, but it's totally doable, and doesn't require you to connect your laptop to your TV.



Once synced, we used an iPad with Google Hangouts open with the camera pointed at me and my partner on the couch and our friends did the same. This way, we were able to watch the movie and also chat with each other. This setup may not be ideal if you're watching a plot-heavy movie that requires you to follow along closely, but it was a lot of fun while watching 47 Meters Down.

Game Night

Pulling off a game night can take a bit more planning and setup, but the extra effort is worth the payoff. If you're mainly looking for a low-key way to kill some time with a few friends with minimal effort, Houseparty, the group video chat app popular with teens, might be the best option. It has several games built-in, including Heads Up, trivia, a Pictionary-like drawing game, and something called Chips and Guac, a word-association game similar to Apples to Apples or Cards Against Humanity. Houseparty works with groups of up to eight, and the games tend to be a bit more fun with slightly larger groups. The downside is that the app's interface can be a bit confusing, and the game selection is limited. Heads Up only has one deck available for free (you can pay for additional decks), and the trivia questions are only okay. The drawing game, called Quick Draw!, is basic but fun, especially if you're willing to get a little creative. Chips and Guac is amusing, but you might be a bit lost if you're outside the app's core tween/teen demographic.

If you want casual games that will keep you entertained for hours at a time, some of the best I've found so far are from Jackbox, which adapt very easily to remote play.

The Internet & Mobile Association of India (IAMAI) is not-for-profit industry body registered under the Societies Registration Act, 1860. Its mandate is to expand and enhance the online and mobile value added services sectors. It is dedicated to presenting a unified voice of the businesses it represents to the government, investors, consumers and other stakeholders.



Digital Industry

Representing the digital industry is at the core of our mandate. We believe that some of the key parameters of economic and social development such as job creation, innovation, contribution to the GDP, inclusion and empowerment of the citizens are going to be driven by the digital industry. There is already talk of this industry contributing US \$1 trillion by 2022. IAMAI's key role is to ensure the growth and sustainability of this industry.



Our Goals

Building on our humble beginning, today we aspire to represent 400 million internet users and over 6,000 digital start-ups. We also have ambitions to connect 1 billion Indians, create global Internet companies from India and evolve

India into a digitally driven economy and society.



Our Charter

Our charter is to keep digital in the center and fire up three stakeholders: users, industry and the Government. As a result, we are actively involved in:

- Spreading the use of internet to a billion plus Indians.
- Creating an enabling environment for digital companies to thrive and add value to the economy and society.
- Promoting the Indian Internet ecosystem with special programmes designed for the emerging tech start-up ecosystem; and
- Helping Government leverage digital for better governance and development.

Our Committees



Edutech

India is becoming one of the largest markets for e-Learning after the US, with around 125 start-ups funded between 2014 and 2016, and a total investment of US\$256 million. Online platforms, mobile apps and

new learning formats are improving both access to, and quality of, education. This Committee will work towards:

- Standardisation and accreditation of online education services.
- Promotion of local language content for greater outreach.
- Evangelising the sector within policymakers and potential customers.



Health Tech

The convergence of healthcare with technologies such as cloud computing has led to innovations in tele-medicine, tele-radiology, hospital- and patient-related services and records, etc. IAMAI will work closely with companies in this domain to set standards for cloud software and devices to ensure interoperability, facilitate payment options, and help evangelise the sector amongst customers and policy makers.



IoT

IoT is a recent phenomenon and the Department of Electronics and Information Technology (DeitY) has drafted India's first 'Internet of Things Policy' with an aim to make the IoT industry in India reach US\$15 billion by 2020. Globally, while China is expected to be the manufacturing leader in IoT, India

has the potential of becoming the hub of software/app development. The mandate of the Committee is to: Tie up the sector's contribution to National Projects such as: a. Clean Ganga, b. Digital India, c. Clean Energy, etc



Digital Payments

As India moves rapidly towards a cashless economy, IAMAI is playing a catalytic role through the Payments Council of India (PCI) which it constituted. Today, PCI is the largest platform for all digital payment service providers and engages actively with the RBI and MoF. It was also involved in the consultation process of the Watal Committee set up by the Government;



AR/VR

Group comprising user industry as well as suppliers and focused on use of these technologies for enhancing customer experience.



Artificial Intelligence

The AI group at IAMAI has been set up recently and comprises user industry as well as tech companies. The group is actively involved in use of AI in industry as well as social sectors.

LEARN A TOOL APACHE HADOOP

Introduction:

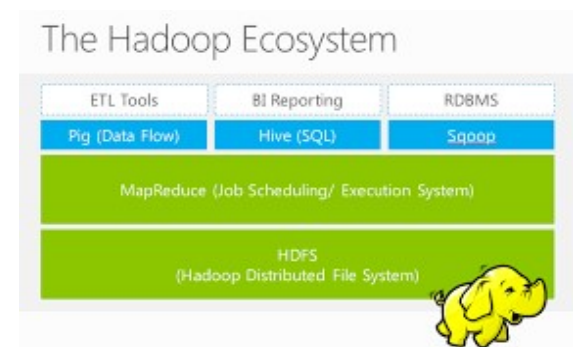
Apache Hadoop is a collection of open-source software utilities that facilitate using a network of many computers to solve problems involving massive amounts of data and computation. It provides a software framework for distributed storage and processing of big data using the MapReduce programming model.



The base Apache Hadoop framework is composed of the following modules:

- Hadoop Common – contains libraries and utilities needed by other Hadoop modules;
- Hadoop Distributed File System (HDFS) – a distributed file-system that stores data on commodity machines, providing very high aggregate bandwidth across the cluster;
- Hadoop YARN – (introduced in 2012) a platform responsible for managing computing resources

- In clusters and using them for scheduling users' applications.
- Hadoop MapReduce – an implementation of the MapReduce programming model for large-scale data processing.



Hadoop distributed file system

The Hadoop distributed file system (HDFS) is a distributed, scalable, and portable file system written in Java for the Hadoop framework. Some consider it to instead be a data store due to its lack of POSIX compliance, but it does provide shell commands and Java application programming interface (API) methods that are similar to other file systems. A Hadoop is divided into HDFS and MapReduce. HDFS is used for storing the data and MapReduce is used for the Processing the Data. HDFS has five services as follows:

1. Name Node

2. Secondary Name Node
3. Job tracker
4. Data Node
5. Task Tracker
6. Name Node: HDFS consists of only one Name Node we call it as Master Node which can track the files, manage the file system and has the meta data and the whole data in it. It has Direct connect with the client.
7. Data Node: A Data Node stores data in it as the blocks. This is also known as the slave node and it stores the actual data into HDFS which is responsible for the client to read and write. These are slave daemons.
8. Secondary Name Node: This is only to take care of the checkpoints of the file system metadata which is in the Name Node. This is also known as the checkpoint Node. It is helper Node for the Name Node.
9. Job Tracker: Basically Job Tracker will be useful in the Processing the data. Job Tracker receives the requests for Map Reduce execution from the client. Job tracker talks to the Name node

to know about the location of the data like Job Tracker will request the Name Node for the processing the data.

10. Task Tracker: It is the Slave Node for the Job Tracker and it will take the task from the Job Tracker. And also it receives code from the Job Tracker. Task Tracker will take the code and apply on the file. The process of applying that code on the file is known as Mapper.



Fair scheduler.

The fair scheduler was developed by Facebook. The goal of the fair scheduler is to provide fast response times for small jobs and Quality of service (QoS) for production jobs. The fair scheduler has three basic concepts.

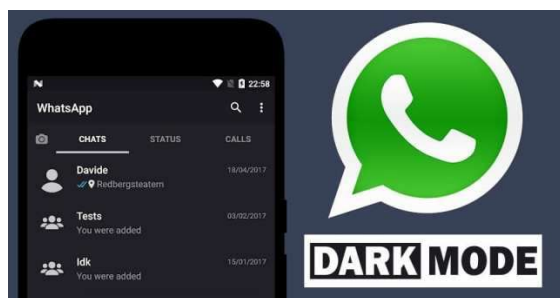
1. Jobs are grouped into pools.
2. Each pool is assigned a guaranteed minimum share.

Excess capacity is split between jobs.

REVIEW BOX WHATSAPP DARK MODE

One of the most requested features in WhatsApp over the last couple of years has been dark mode. It is finally available on Android. You can now manually set dark mode for WhatsApp, or have the app match the system theme automatically. Here's how you can get started with dark mode on WhatsApp for Android.

As of March 3, 2020, dark mode is rolling out to all WhatsApp users around the globe. Even better, enabling it is very simple.



Dark mode looks particularly good on WhatsApp because of the green accents that are present throughout the interface, and they bring a bit of visual flair to the app.

I've had dark mode enabled for over a week now, and it makes a huge difference in how you use the service. It's easier on the eyes, and if you have an Android 10 phone and set dark mode system-wide, there's better visual consistency.

Benefits of dark mode:

- **Readability** – When choosing colors, we wanted to minimize eye fatigue and use colors that are closer to the system defaults on iPhone and Android respectively.
- **Information Hierarchy** – We wanted to help users easily focus their attention on each screen. We did this by using color and other design elements to make sure the most important information stands out.
- **Health advantages** – Dark mode emits less blue light, which reduces the likelihood of your sleep cycle being disrupted.
- **Using less power** – Dark mode uses less power and works better in low-light settings – meaning you can use it easily while the lights are off.
- **Improved design** – Some colors stand out better on a dark background than on a light one, and light text on a dark background often needs less margin space than the opposite.

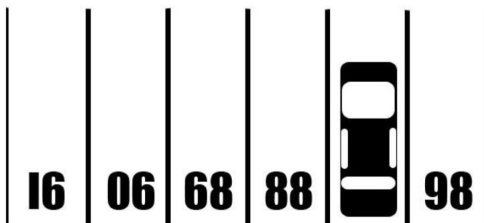
There are also negatives, however, including dark mode being harder to use when there is lots of external light, or if the text is small.

!Mind Punch

1. The price of an article was cut 20% for a sale. by what percent must the item be increased to again sell the article at the original price?

2. If the diameter of the sphere is doubled, the surface area of the resultant sphere becomes x times that of the original one. Then, x would be?

3. What is the number of the parking space covered by the car?

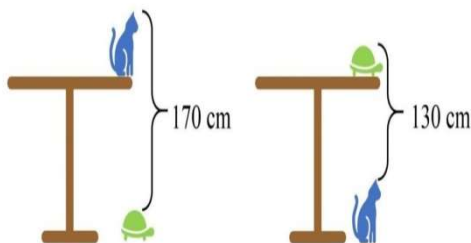


4. There are 85 people in warehouse. Some have been turned to zombies;

Some are still alive. if the ratio of zombies-to-living humans is 2:3,

How many zombies are there?

5. How tall is the table?



6. The day before yesterday I was 25. The next year I will be 28. This

is true only one day in a year. What day is my Birthday ?

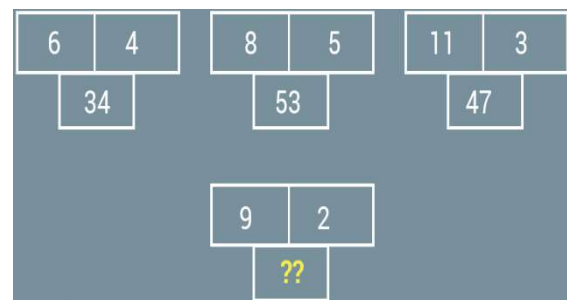
7. You have 3 litre bottle and 5 litre bottle. How can you measure 4 litres of water by using 3Lt and 5Lt bottles?

8. Find the odd one:



9. How to get a number 100. using four sevens(7's) and a one(1)?

10. Find the number?



IT VITA+

1. Which computer engineer got Nobel Prize for literature in 2003?
2. Which day is celebrated as world Computer Literacy Day?
3. Company Steve Jobs took the idea for the graphical use interface with a mouse?
4. Where does the symbol @ come from?
5. The “Biggest Military computer hack of all time” in 2002?
6. Which large IT company doesn't have its headquarters in the Silicon Valley?
7. What was the first computer virus in the DOS system?
8. When was the first electronic computer created and what was its name?
9. What does not include, Unix time?
10. Who is the forerunner of virtual reality?
11. When was the first e-mail message sent?
12. Who is credited as the first computer programmer?
13. Which was the world's successful electronic computer?
14. Who invented Mechanical calculator called Pascaline?
15. How the quality of printer is measured?

\$ FAMOUS AND FAVOURITE

Chanda Kochhar (Advani, born 17 November 1961) is the former managing director and chief executive officer of ICICI Bank. However, on 4 October 2018 she stepped down from her position following allegations of corruption. Amidst investigations related to Videocon bad loans, she was forced by the board of ICICI Bank to take indefinite leave. The Central Bureau of Investigation named Chanda Kochhar and her husband as beneficiaries in the financial fraud. The Justice B N Shrikrishna probe panel reported that Kochhar had violated ICICI Bank's Code of Conduct, following which her service was terminated with all her entitlements and benefits revoked. After her exit, Sandeep Bakhshi, who was the interim Managing Director and CEO became the full-time MD and CEO.

Kochhar was born in Jodhpur, Rajasthan in a Hindu Sindhi family. She was educated at St. Angela Sophia School, Jaipur. She then moved to Mumbai, where she joined Jai Hind College and earned a bachelor of commerce degree from the University of Mumbai. After graduating in 1982, she studied cost accountancy from Institute of Cost Accountants of India, and later did a

master of management studies degree in University of Mumbai from Jamnalal Bajaj Institute of Management Studies. She received the Wockhardt Gold Medal for Excellence in Management Studies as well as the J. N. Bose Gold Medal in Cost Accountancy.

Kochhar resides in Mumbai, and is married to Deepak Kochhar, a wind energy entrepreneur and her business schoolmate.



Born	Chanda Advani 17 November 1961 Jodhpur, Rajasthan, India
Occupation	Former MD & CEO, ICICI Bank
Nationality	Indian
Salary (as the managing director &CEO, ICICI Bank)	2.66 crores(as in 2019)

SOLUTIONS

!Mind Punch

1.25%

2.4

3 .87 If you flip the image upside down, you'll see that what you're dealing with is a simple number sequence.

4.34

5.150cm

6. My birthday is on December 31. I am telling this on January 1. Day before yesterday (dec 30)=I am 25, Present day (January 1)= I am 26, this year december 3= I will be 27. Next year december31= I will be 28.

7. First fill 5Lt bottle completely and pour 3 litres into 3Lt bottle. Empty 3Lt bottle. Pour remaining 2 litres in 5Lt bottle into 3Lt bottle. Again fill 5Lt bottle completely and pour 1 litre into 3 Lt bottle until it becomes full. you have 4 litres in 5Lt bottle. That's it

8. Except L all the other letters are formed by three lines. L is formed with only two letters. So, L is the odd one among the letters

9. $177 - 77 = 100$

10. 29 In each diagram multiply top two values and add their sum to give the bottom value. In first rectangle, $(6 * 4) + (6 + 4) = 34$, In second rectangle, $(8 * 5) + (8 + 5) = 53$. Similarly, in last rectangle, $(9 * 2) + (9 + 2) = 29$ So, answer is 29.

IT VITA+

1. J.M.Coetzee
2. December 2
3. Xerox
4. from Latin
5. Gary McKinnon
6. IBM
7. Brain virus
8. in 1939- Atanasoff-Berry ABC
9. of leap seconds
10. Myron Krueger
11. 1971
12. Ada Lovelace
13. ENIAC electronic numerical integrator and computer
14. Blaise Pascal
15. Dots of Inch

DEPARTMENT OF
COMPUTER SCIENCE (UG)

SENSE OF GRATITUDE

JUNE - JULY'20



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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.....!!