



# IT UNLIMITED MAGAZINE



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# 67

# ISSUE



## KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE (UG)

CYBERCREWS ASSOCIATION



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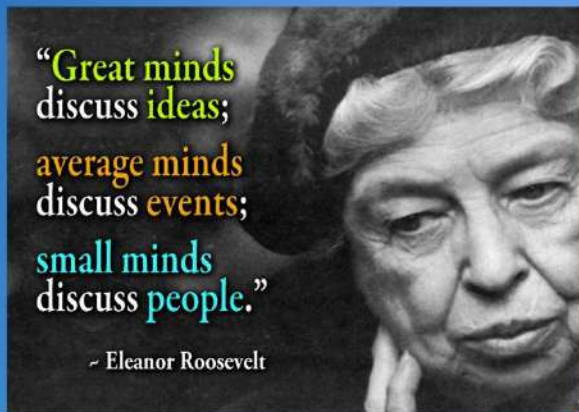
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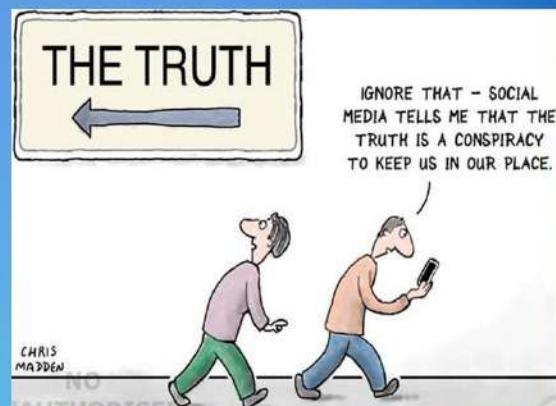
# THOUGHTS OF THE ISSUE

# 67

REMEMBER



FREE ADVICE



JUST FOR FUN



MESSAGE

Sometimes when you're in a dark place, you think you've been buried, but actually you've been planted.

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# CONTENT



**03** Google's crackdown on accessibility services could impact your favorite Android apps...



**05** Life saving drone



**07** Samsung's Smart Contact Lens



**09** Learn How You Can Protect Companies and Networks from Hackers

## Regular Features

**01** INTERVIEW PEDIA

**15** LEARN A TOOL

**17** REVIEW BOX

**19** MIND PUNCH

**21** IT VITA

**22** FAMOUS AND FAVORITE

**23** SOLUTIONS



**11** Google's Missouri Problem Mirrors Woes In Eu



**13** A Vision For Success





# INTERVIEW PEDIA



## APTITUDE TEST



### PART- 15

Hi all! In this part of Aptitude, we are going to highlight on In-tray exercises.....

#### What is In-tray?

An in-tray exercise is a paper-based simulation used to assess the aptitude of potential employees as part of the selection process. Candidates will be presented with a business-related scenario, accompanied by a list of related tasks including telephone calls, emails, complaints and reports. It is then up to the individual to prioritize each task in accordance to their perceived importance, providing reasons why they have chosen the selected sequence. In-tray exercises are used by many companies as part of the selection process, and they commonly appear as part of the interview stage.

#### In-tray Vs e-tray

Businesses are starting to move away from the traditional, paper-based in-tray exercise to a very similar type of test, called an E-tray exercise, which would be discussed in the next issue. The principle of the test is the same, but the documents are provided in an email inbox rather than on paper. The subject matter usually relates to the company and the type of job that you are hoping to secure.

#### How is an in-tray exercise structured?

If you are asked to complete an in-tray or e-tray exercise, you will be presented with a specific scenario and told to prioritize a set of tasks. You'll need to work through these tasks within a given time frame (typically between 30 minutes and an hour, although some tests can last up to 2 hours). The tasks contained within the in-tray can vary considerably, though they generally include answer phone messages, correspondence, a diary or planner, organizational charts and a list of emails. During the test, you will be expected to:

- Make calculations
- Extract information from data
- Make judgments calls dealing with demanding managers/unhappy clients etc.

#### How to approach the test?

Before you start anything, read through the information that you have been provided with thoroughly, so that you fully understand what is required.

**DO YOU  
KNOW?**

WhatsApp has launched a new 'Live Location' feature that allows users to share their location in real-time with their contacts.



**01**

When you are ready to begin, treat the tasks as you would on a normal day. It can be difficult to think clearly in test situations but it is really important that you stay calm and approach it in a logical manner. Identify those tasks which are the most important or urgent as a starting point. Look at any deadlines which have been set and factor this into your decisions.

Manage your time carefully so that you have the best chance of working through everything that has been assigned to your in-tray. The most important thing to remember is: don't rush. If you try to hurry through to get finished, there is a strong chance that you will make an error which you may not realize until it's too late. The recruiters will be looking for your ability to identify key points, so try not to over-analyze things. You need to make a decision based on the tasks and information you have been presented with.

### **Tips for success**

If you have been asked to complete an in-tray exercise, you ought to carry out as much preparatory work as you can beforehand. If you prepare properly and follow the tips in this article, there is no reason why the in-tray assessment can't be a success. Bear the following in mind:

- Many large graduate recruiters (particularly financial institutions and accountancy firms) use in-tray exercises during their candidate assessment centre. As such, sometimes you will be given notice of your in-tray exercise well in advance. If you need to practice beforehand, in-tray and e-tray simulator tests are available at JobTestPrep and AssessmentDay.
- Once you are at the test Centre or interview, read through the instructions carefully before you begin. It can be very tempting to just skip over the content so you can complete the test and move on to the next stage, but an oversight at this stage can have disastrous consequences. Attention to detail and the ability to read and interpret instructions correctly will be the key attributes that a potential employer will be looking for.
- Approach the test logically, just as you would if you were presented the same task in that role. Time can pass quickly during the test, so it is important that you manage your time effectively (this is a skill that your potential employer will be looking to assess). Keep a check on the time, and try to finish with enough spare so that you can review your work and make any amendments if required.
- Some in-tray exercises will have a written section, where you will be required to respond to an email. Typically, no spell-checker is provided, so you must be certain to use words that you can spell confidently. Make sure you respond in a style appropriate to the email you have been sent, and ensure that it has a clear, logical structure. Proof-read what you have written before the time is up.

If you approach the assessment in the right way, remain calm throughout and apply common sense, there is absolutely no reason why you cannot complete a successful and strong in-tray or e-tray exercise as part of the selection process.

Meet you all in the next issue.....Keep practicing!! All the best!

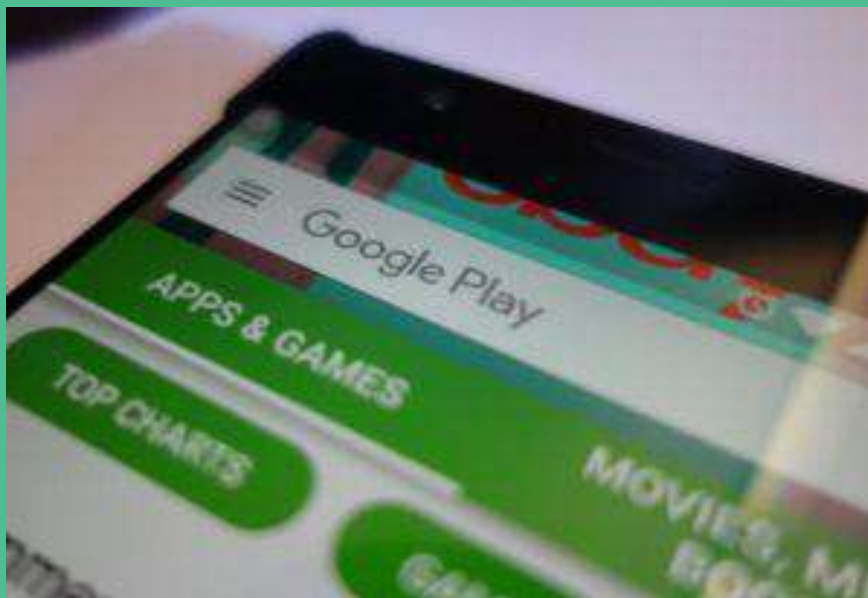
**-Staff-Editor**



## Google's crackdown on accessibility services could impact your favorite Android apps...

One of the best reasons to buy an Android phone is the sheer number of ways you can manipulate it to your liking. Even without rooting, there are hundreds of apps in the Play Store that add, enhance, and tweak functionality to make the Android experience that much better. But a change coming to Google's Play Store terms could put an end to it.

As first reported by Android Police, Google is preparing to shut down universal access to its accessibility services APIs within the next 30 days. According to letters sent out to a wide range of developers, apps that use accessibility services that are not explicitly being used to help users with disabilities use Android devices and apps may be booted from the Play Store unless the functionality is removed or changed. Google adds that "repeated violations of any nature will result in the termination of the developer account, and investigation and possible termination of related Google accounts."



The impact on you at home: While you might not think this crackdown will impact your Android experience, there's an extremely good chance that one of your favorite apps uses accessibility services to enhance the experience. For example, LastPass uses accessibility services to automatically fill passwords for saved websites and apps, and Universal Copy uses it to capture text from apps that normally don't allow it. And there are many, many others.

While this doesn't necessarily mean that your favorite apps will lose some of their best functionality, it does present some problems. Google offers APIs to replace some of these features (such as the Auto fill API in Android 8 Oreo), but there will definitely be an adjustment period. For one, there aren't many phones that run Oreo, and for another, it means a bunch of work for developers, many of whom have been using accessibility services for years. However, it's a fact of life. As security ramps up and Google continues to limit what apps can and can't do, more and more of the "open" appeal of Android gets chipped away.

**DO YOU  
KNOW?**

South Korean electronics giant Samsung has announced a partnership with Google to bring the technology giant's augmented reality platform ARCore to Galaxy smartphones.



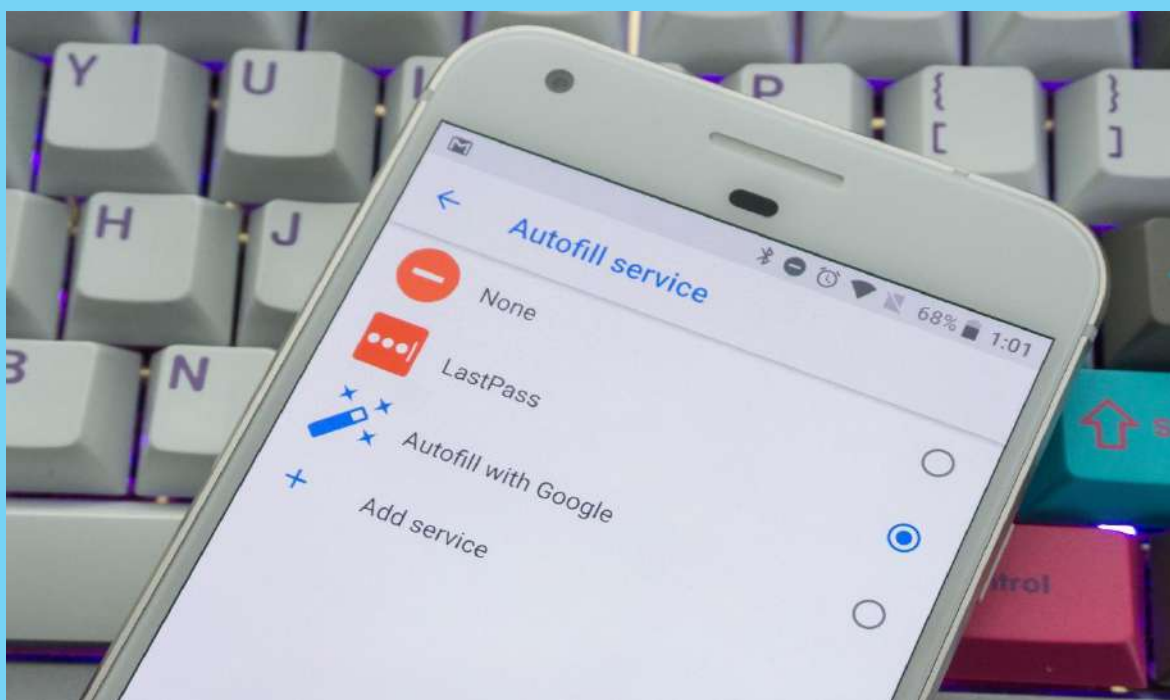
**03**



## No more Accessibility

Accessibility services lets developers access core components of the Android system in the name of making a specific feature or function easier for people with disabilities to use. However, many developers take advantage of the powerful API to enhance the functionality of apps that aren't specifically aimed at helping impaired users. For example, developers use the TalkBack screen reader to boost copy-and-paste, rather than specifically help blind users.

A lengthy Reddit thread confirms that Google has sent out numerous letters to developers spelling out the offending service and asking for clarification on how certain features are designed to help disabled users. The developer who started the thread makes a popular app called Status that draws an overlay on top of the stock Android status bar to allow for personalization of the colors, icons, and animations.



The biggest issue here is security. Opening up a powerful API to any developer who wants them presents a huge security risk. While the vast majority of these apps are simply using the API to give users greater functionality, unscrupulous developers could use accessibility services to steal data from users. By shutting down the use of accessibility services to non-accessibility apps, it will make Android a whole lot safer but perhaps, not as fun.

We shouldn't be too surprised, though because Google has always stated that accessibility services “should only be used to assist users with disabilities in using Android devices and apps,” though it always seemed like Google was giving developers tacit approval to incorporate the API into general apps (and its constant approval of said apps clearly supports this theory). But this new crackdown means that the floodgates are being slammed shut.



# LIFE SAVING DRONES

Drones aren't always mentioned in the same breath as saving lives, but a new report from one drone manufacturer says they should be. Civilian drones have been used to save at least 59 people in 18 different incidents around the world since 2013, DJI, a China-based company that manufactures popular civilian drones, said in a statement. The company added that 38 of those individuals were saved within in the last 10 months thanks to rescue teams and civilians employing their Unmanned Aerial Vehicles (UAV) to aid people facing life-threatening emergencies. Now, DJI says a drone is saving nearly one person's life a week on average.

Drones are growing in popularity as more people look to take flight with small UAVs and explore the world around them. But the multitude of ways they've been used to save lives in recent years is staggering. For instance, a drone was used in Canada to spot a man who was lost in a "snowy field," according to DJI. Drones were used to drop life vests and ropes to two teens who were at risk of drowning. They've also been used to find a missing heart attack victim and look from above for flooding victims. Rescuers employed a heat-sensing drone to find kayakers who went missing and were stranded at night.



There might be many more instances like those. There are many unreported incidents and some reports on drones saving lives don't mention how many people were saved. Perhaps one of the more notable DJI findings is who is actually saving lives with drones. The company found that one-third of the recorded incidents included people who were rescued by civilians, non-professionals, or volunteers. In some of those cases, people were saved by bystanders who happened to have drones on the ready when an emergency was occurring.

**DO YOU  
KNOW?**

Technology giant Google on Thursday announced its plans to reduce the app subscription fee to 15% in the Play Store. According to Google, developers will be able to charge the revised price only to users who have subscribed to their app for at least a year.



**05**

UAVs can transport medicines and vaccines, and retrieve medical samples, into and out of remote or otherwise inaccessible regions. "Ambulance drones" rapidly deliver defibrillators in the crucial few minutes after cardiac arrests, and include livestream communication capability allowing paramedics to remotely observe and instruct on-scene individuals in how to use the defibrillators. The FAA approved the first such use of a drone within the United States, to deliver medicine to a rural Virginia medical clinic in a program called "Let's Fly Wisely". Connecting Robotics, in a pilot project with Santa Casa da Misericórdia de Penela and Penela Town Hall, made a first meal delivery by a drone. The project intends to be an alternative to the transport done with the mini-van. The first beneficiary to take advantage of this delivery service was Joaquim dos Reis, a septuagenarian living in Podentinhos, who, in addition to meals delivered by the drone, continue to receive the home assistance provided by Santa Casa.



The Tacocopter is a taco delivery concept utilizing a smartphone app to order drone-delivered tacos in San Francisco area. It was created by MIT graduate Star Simpson and its website went live, garnering the public and the media attention. The revelation that it didn't exist as a delivery system or app led to it being labelled a hoax. An independent British franchise of Domino's Pizza tested a remote-controlled drone, called DomiCopter, to deliver pizzas. It was developed by a joint effort of U.K. drone specialist AeroSight, Big Communications and creative agency T + Biscuits. Burrito-by-drone deliveries to be tested at the Virginia Tech campus by Chipotle and Google as per articles. This is not the first time the concept has come up. There used to be the "burrito bomber" Pizza deliveries via drone are now being trialed in New Zealand by Domino's. The concept can be traced back to 2012 to a Free University of Berlin student project. Other pizza delivery drone attempts include the DomiCopter from Domino's.





# SAMSUNG'S SMART CONTACT LENS

Smart contact lenses sound like science fiction. But there's already a race to develop technology for the contact lenses of the future ones that will give you super-human vision and will offer heads-up displays, video cameras, medical sensors and much more. In fact, these products are already being developed.

Smart contact lenses are like implants but they don't require surgery and can usually be removed or inserted by the user. They're neither on nor under the skin full time. They're exposed to both air and the body's internal chemistry.

Contact lenses sit on the eye, and so can enhance vision. They're exposed to both light and the mechanical movement of blinking, so they can harvest energy. The latest Verily smart contact lens is actually injected into the eyeball, according to a recently published patent. So it's less of a contact lens and more of a surgical implant.

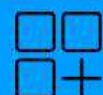


The process is vaguely gruesome: Your natural lens is removed from your eyeball. A fluid is then injected into the eye, and that fluid fuses with the eye's lens capsule as it solidifies. Inside this new, artificial lens lives storage, battery, sensors, a radio and other electronics. The artificial lens would take over the job of focusing light onto the retina, improving vision in numerous ways without glasses, but in a flexible, interactive way.

Verily is headed by Andrew Jason Conrad, who is also the inventor of the lens. Samsung just took another step into science fiction. South Korea has just granted the tech giant a patent for contact lenses with a display that can project images straight into the user's eye.

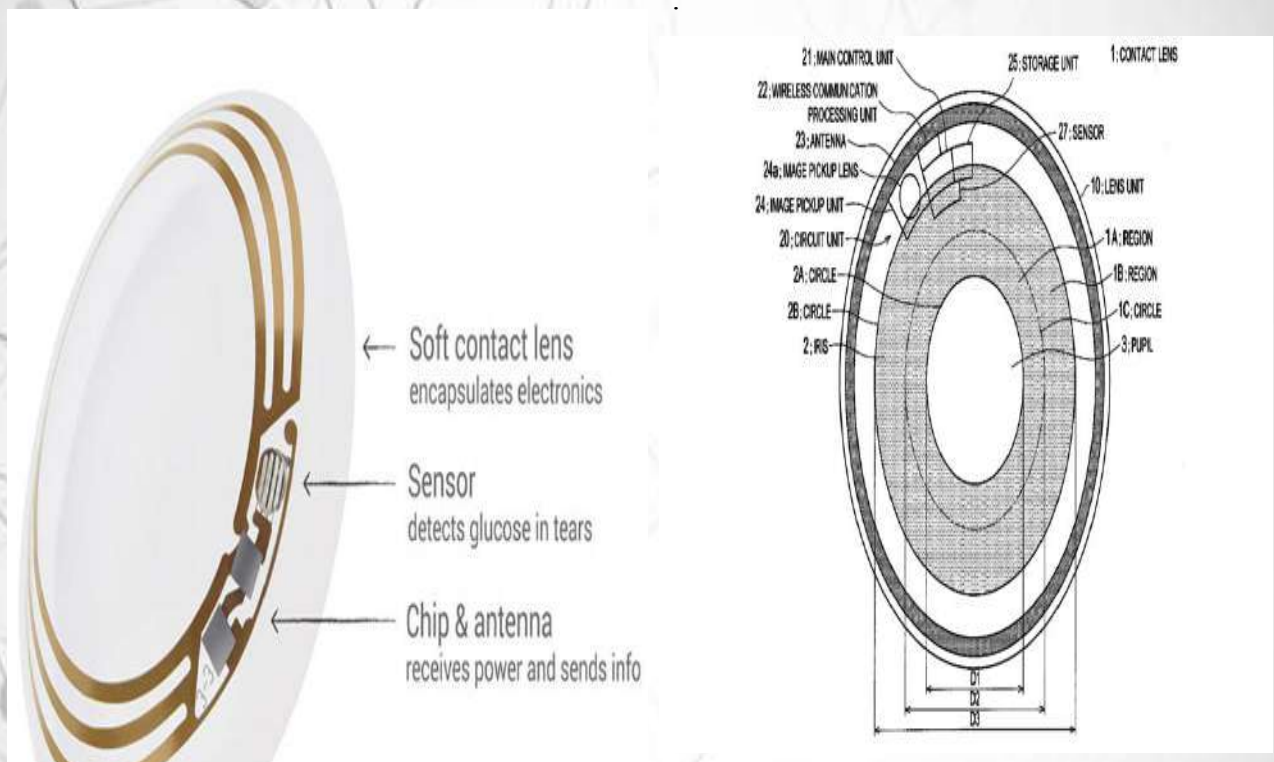
## DO YOU KNOW?

China's Tencent has released a gaming app that lets users clap for Chinese President Xi Jinping by tapping their smartphones' screen multiple times in 19 seconds. Called 'Excellent Speech: Clap for Xi Jinping', it begins with a clip of the President's speech.



The lenses are equipped with a built-in camera and sensors that can be controlled simply by blinking. Content is sent to your smartphone through embedded antennas. This is where the data is processed. It seems that Samsung is developing the smart contact lenses as an alternative to creating improved augmented reality experiences over the current crop of wearable's.

With contact lenses instead of glasses, users will be able to enjoy augmented reality content more discreetly. Blinking to control an ocular interface may lead to a lot of awkward situations and accidental input, but it's not entirely unrealistic. Thankfully, there's always the option of controlling the interface through your smartphone, like you would everything else...



With this development, Samsung joins Google in the arena, who also owns two patents for smart contact lenses. Google's contact lenses are mainly intended for medical use, with sensors and flexible electronics to read tear fluid chemicals to determine blood sugar levels.

Google and Samsung both filed their smart contact lens patents in their respective countries in 2014; however, it's possible that both companies are currently just at the concept stage, rather than actively developing smart contact lens prototypes. Indeed, tech companies file (and are granted) all kinds of patents all the time, and it doesn't indicate that a corresponding commercial release is bound to follow suit.

Since so many technologies are constantly being developed and patented by companies large and small, the news is no reason to get too excited, but it is a reason to be hopeful.



# Learn How You Can Protect Companies and Networks from Hackers

In today's global and interdependent economy, the greatest danger facing a multinational corporation or federal government isn't necessarily a standing army; it's a tech-savvy hacker with an Internet connection. With just a few lines of code and minimal research or preparation, an intrepid hacker can breach online security defenses and exploit weaknesses in a major computer system or network in a matter of seconds.

The only people who stand in the way of these nefarious hackers are those who possess a similar skill set, yet use their talents for good instead of evil. And you don't need to invest hundreds of hours and thousands of dollars in a traditional computer science education to start fighting this important fight.



Now, you can become a CyberSecurity expert who defends major corporations and governments from dangerous online attacks with the Zero to Hero Cyber Security Hacker Bundle. Regardless of whether you're a seasoned tech expert who's looking to expand your existing skill set, or a complete computer science novice who's looking to break into an exciting, in-demand and increasingly lucrative industry, this course bundle will get you to where you need to be.

With more than twelve hours of content spread over eight distinct courses (each of which focuses on a specific aspect of the expanding cybersecurity industry), this extensive course bundle will give you the skills and tools you need to become a competitive CyberSecurity master.

**DO YOU  
KNOW?**

South Korean electronics giant Samsung launched a 360-degree camera called 360 round which is equipped with 17 lenses.



**09**

Although it may sound counter-intuitive, this bundle revolves primarily around teaching you how to become a hacker, albeit the "good" kind of hacker. These so-called "white hat" hackers those who can anticipate and proactively thwart the actions of malicious hackers around the globe have proven themselves to be invaluable in the fight against system breaches and cyber security lapses for both private firms and major government entities alike.

Throughout this bundle, you'll learn how to transform yourself into a real-life cyber warrior for the good guys, with instruction spanning the most essential hacking tactics (such as real-time attack vectors and basic security functions) to more advanced methods (such as how to perform advanced client-based, server-based, and application-based web attacks).



In addition to outfitting with a slew of valuable hacking skills, this bundle will also teach the essentials of wired and wireless network security, virus and antivirus-malware security, information security awareness, and much more.

There's even a specific course dedicated to information gathering, which learn how to become a real-time penetration tester and how to anticipate and mitigate attacks by hackers across the globe.

Start fighting the good fight by learning how to combat dangerous cyber-attacks with the Zero to Hero Cyber Security Hacker Bundle over 90% off its regular price.

**DO YOU  
KNOW?**

Technology giant Google has added the 'Instant Apps' feature in the Google Play Store through a "Try Now" button to let users try Android apps before downloading.



**10**



## GOOGLE'S MISSOURI PROBLEM MIRRORS WOES IN EU

As an aggressive antitrust investigation plays out in Europe against Google, its practices have drawn comparatively little scrutiny from regulators on the US side of the Atlantic. But the mid-west state of Missouri wants to change that. The state's Attorney General Josh Hawley has launched an investigation which appears to mirror the probe by EU authorities, demanding information on how Google uses data gathered on consumers, and examining whether the internet giant abuses its dominant position in search. "No entity in the history of the world has collected as much information about us as Google. Our office wants to know what Google is doing with this information," says a tweet from Hawley, a Republican who is running for the US Senate. Hawley added that sees substantial evidence that Google manipulates search results to list affiliated websites higher than those of rivals. If true, these actions may reflect an unlawful attempt to leverage Google's monopoly power in the search-engine market to stifle competition. In the US, the Federal Trade Commission in 2013 dropped a two-year antitrust investigation of Google after the company agreed to make changes to some practices to ease competition concerns.



But a number of Google critics and competitors have argued the US probe did not go far enough. They point to the European Commission's three-pronged inquiry into Google's dominance in search, its advertising platform and its Android mobile operating system. The EU has already imposed a fine of 2.4 billion euros (\$2.7 billion) over search results and could impose stiffer penalties as the investigations proceed. Scott Cleland, a consultant and longtime Google critic who operates the "watchdog" website Google Monitor said the EU probe may represent a turning point for stiffer actions against Google. Even if the federal government remains on the sidelines, the states represent a law enforcement and a political and government force that Google can't ignore. If several state regulators band together, "they are very formidable. Google's position has become more precarious with the election of President Donald Trump.

### DO YOU KNOW?

Technology giant Apple's Co-founder Steve Wozniak has launched an online tech education platform "Woz U" to provide employable digital skills for the tech industry.





The failure of firms such as Google, Facebook and Twitter to crack down on disinformation and Russian-sponsored propaganda has also eroded support of the tech sector in Washington. Google's biggest challenge is that the American political landscape has shifted beneath its feet, says Mark Blafkin, a co-founder of the technology and business consultancy Vrge. In the age of Trump, there is growing political momentum in both parties for holding Google and other tech giants accountable on competition, fake news, and a series of other issues. Google's share of search is estimated at around 90% in many markets. Google and Facebook are scooping virtually all the growth in digital advertising revenues, according to analysts. And its Android system powers more than 80% of smart phones worldwide.

Europe's top antitrust regulator Magrethe Vestager has argued that firms with dominant market share have a "special responsibility" not to misuse their power. But in the US, an antitrust action against Google could be complicated by a decades-old standard of measuring consumer harm. Since Google's services are mainly free, it could be hard to argue its actions are hurting consumers or raising prices. But antitrust standards in other parts of the world are different, and some analysts see the EU probe as opening the door to more legal woes for Google. "After nearly a decade of holding competition regulators around the world at bay, the European Commission's ruling represents the first significant break in the dam for Google's legal and public affairs strategy.



Not only will Google face years of ongoing European Commission investigations covering search, AdSense, and Android, but history suggests a ruling like this could provide the foundation for other regulators to launch investigations or scrutinize mergers and acquisitions. John Simpson at Consumer Watchdog, another long time Google foe, it appears the winds are shifting against Google. The latest actions in Missouri and congressional hearings on online abuse are symbolic of a growing awareness... that the big tech companies deserve a harder look. From the left and the right, we can see a new attitude, which is questioning some of the procedures of the tech industry.

**DO YOU  
KNOW?**

Technology giant Google is launching a bug bounty program and will pay hackers \$1,000 (₹65,000) to find bugs in top Android apps including Dropbox, Snapchat, and Tinder.



**12**



# A VISION FOR SUCCESS

In 2015, John Chambers, chairman and CEO of Cisco Systems, declared his credo: “Disrupt or be disrupted.” Anyone unable to produce innovations and displace existing technologies, products, and services will be pushed aside themselves. Digital transformation is the key to keeping your own company from fading away into oblivion.

Chambers’ forecast is already coming true today. Digitalization is the main reason why more than half of all Forbes 500 companies from the year 2000 have now disappeared, explained Pierre -Nanterme, CEO of leading consultancy Accenture, to the World Economic Forum.



Bright ideas and disruptive technologies have long been able to put significant -pressure on entire business models within a very short period, as has been demonstrated by companies such as Uber in the taxi business or Airbnb in the hotel industry.

## ARE SMALL AND MEDIUM-SIZED ENTERPRISES FALLING BEHIND?

Global players are being affected and to a greater and greater extent small and medium-sized enterprises as well. Today’s customers are very demanding and lose their patience quickly. That is why not only products but also the underlying production processes must be made available and visible to end customers in a more customized, intelligent and rapid manner while maintaining consistent quality at the lowest possible price.

This means the pressure is on yet many SMEs are still hesitating to effectively implement or even to initiate a digital transformation of their companies. Concern over the high capital expenditure involved, problems with data security, and the lack of qualified specialists act as a disincentive. In the long run, this may result in small and medium-sized enterprises losing ground.

**DO YOU  
KNOW?**

Google has said that it will reimburse the customers who overpaid for its newly launched Pixel 2 and Pixel 2 XL smartphones after pop-up shops in the US charged them an extra sum.



**13**



## THE MOMENT FOR THE OPERATOR:

If small and medium-sized enterprises want to take advantage of these opportunities and remain competitive, they have to undergo an internal and external transformation. On the one hand, they need to add digital solutions and services to their portfolio. This is the only way they can continue to satisfy customer requirements in the long term.

On the other hand, they must also gear their internal processes to reflect the requirements of digital transformation. This does not mean that every business must quickly carry out this transformation at immense cost, as Siemens managing board member Klaus Helmrich explains in an interview. However, a clear commitment by the company to a digitalization strategy is essential.



## THE POWER OF A VISION:

The power of a vision permits us to see beyond our present condition. The power to visualize was given to us for a reason. We are able to manifest our miniature worlds within the colossal world we call earth. Through vision we can dream, create, and manifest what does not yet exist. The vision must hold steady to the true and the good. If we want positive results, we must hold true to a positive outcome. The vision must be powerful enough to create a conviction so strong within, that it cannot be shattered regardless of appearances.

Some would say vision is nothing but good ole' faith under a pseudo name, and this might be true. If one wants to call it faith by all means, do so. Whatever works is fine. Think of your vision in the same way as a diet. In order for your diet to work, you must stick with it. You must think about how much better you will feel and look by staying with that diet, this is the exact same way the "power of vision works." It works through determination, commitment, and faith.

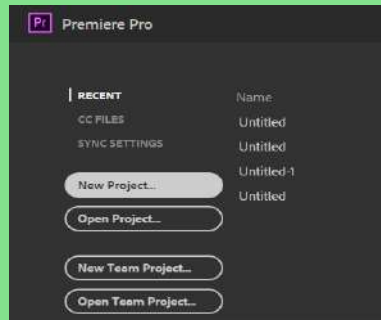


# LEARN A TOOL

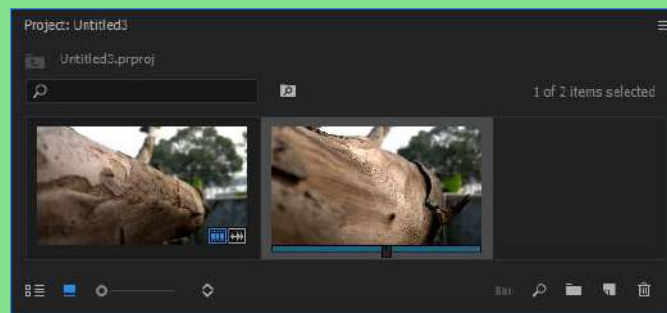
## ADOBE PREMIERE PRO

How to make a slow motion video using a normal clip.

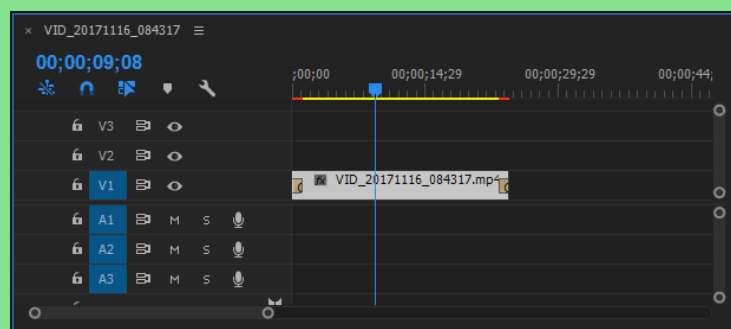
Step 1: Create a new project.



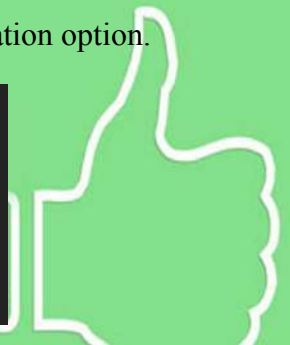
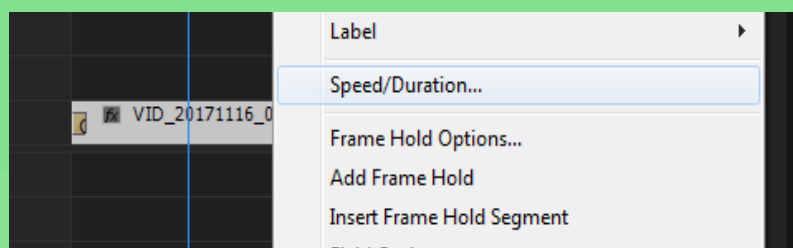
Step 2: Import normal video into the application.



Step 3: Drag the video into the timeline for editing.

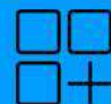


Step 4: Right click on the video which is in the timeline and select speed/duration option.



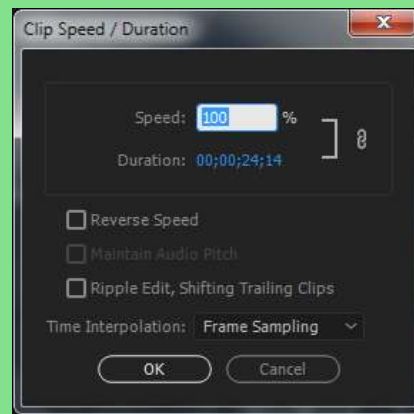
**DO YOU  
KNOW?**

Snap, the maker of photo-sharing app Snapchat, has released a Dancing Hot Dog Costume costing \$79.99 (over ₹5,000) ahead of Halloween.

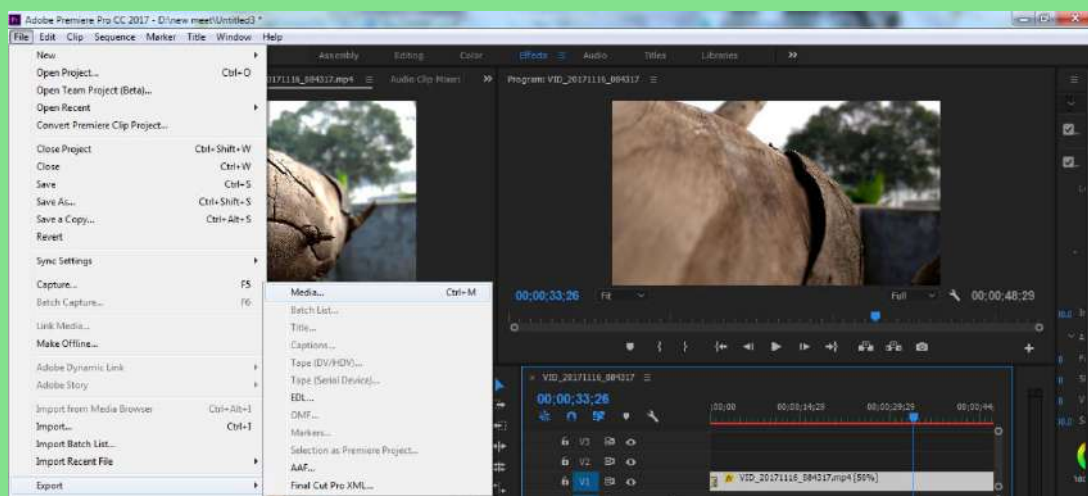


**15**

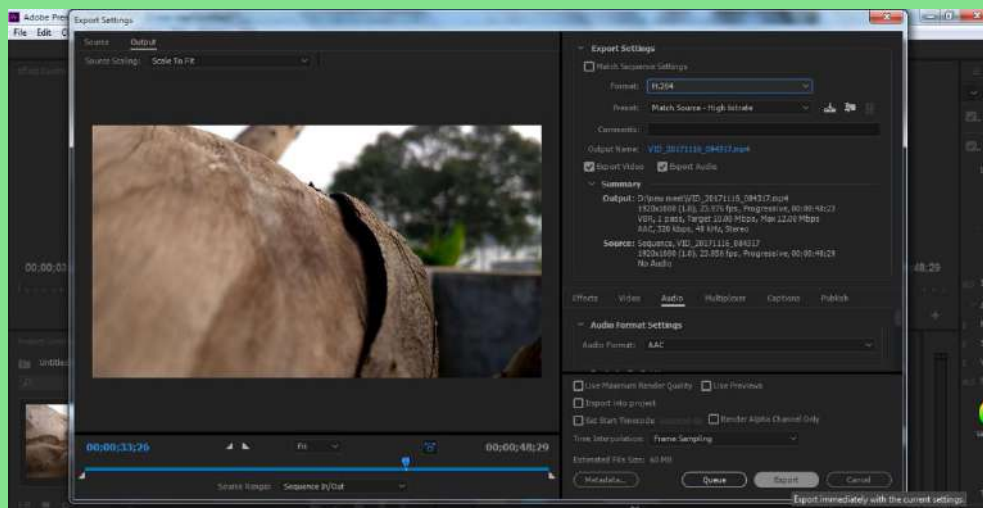
Step 5: In the dialog reduce the percentage up to 50% and click ok button.



Step 6: Open file menu and select export option as media.



Step 7: In export dialog box select H.264 format, type the file name and finally click export button.



Step 8: Now you are done and ready to make a slow motion video.

**DO YOU  
KNOW?**

The Union Ministry of Electronics and Information Technology has set up an internal committee to advise the government on a policy for Artificial Intelligence (AI).



**16**



# REVIEW BOX

## AMD RADEON RX VEGA 64

### FEATURES AND DESIGN:

As a replacement for AMD's previous high-end boards, the Radeon Fury X and Radeon Fury, the RX Vega improves upon the previous design while retaining many core features. Manufactured using a 14nm process, the RX Vega 64 offers 64 compute units and 4096 stream processors with a greatly increased base clock speed of 1247 MHz, boosting to 1546 MHz under load.

Liquid cooled versions can reach 1667 MHz - an improvement of around 60 percent over the R9 Fury X. The new card uses the same High Bandwidth Memory architecture found in the Fury boards to achieve a memory bandwidth of 484 GB/s in a new 'HMB2' version. This is a little slower than the 512 GB/s memory on the Fury boards.



But Vega doubles the amount of RAM from 4GB to 8GB - a very welcome development as Fury cards were often criticized for offering less video memory than some less expensive AMD cards. Vega also benefits from a new paged memory architecture which greatly improves efficiency when reading data over the PCI Express bus while simultaneously operating as a cache for future data access.

This process is managed by a new High-Bandwidth Cache Controller (HBCC) which allows your PC's main memory to behave like video memory, potentially giving the Vega chip access to huge amounts of RAM with higher performance than has previously been available.

**DO YOU  
KNOW?**

A passenger has said her Samsung Galaxy J7 caught fire when it was in her handbag, during a Delhi-Indore Jet Airways flight.



**17**



The Vega architecture also includes a new and more efficient geometry engine which is able to more quickly determine which parts of a scene will be visible, avoiding any wasted computation on those parts which will never be seen.

Vega also benefits from DirectX 12.1 support, rather than DirectX 12.0 which was supported by the Polaris architecture found in the RX 500-series. Furthermore, you can now connect more ultra-high resolution displays to the card simultaneously with higher refresh rates than before.

For example, the Vega RX 64 will allow up to three simultaneous 4K HDR displays at 60Hz, where Polaris is limited to a single monitor.



Although the first wave of RX Vega 64 cards are all based on AMD's reference design, the cosmetic details of your particular looks will depend on which partner you buy it from. Our review sample which is one of a limited edition batch fitted with a rather fetching brushed aluminum exterior.

We don't know for how long these versions will be available, but they're not the best value for money as they do cost around £100 extra yet offer no performance benefit. Limited edition version or not, the reference Vega 64 boards all have a premium metal construction which sets them apart from the less expensive models.

Each board features an illuminated 'Radeon' logo along its length, with a smaller illuminated 'R' next to the power connectors. Also included is a row of 8 individual LEDs forming a 'tachometer', indicating the current GPU load level.

Unusually for a graphics card at this level, the board comes with only four monitor outputs: three Display Port 1.4 and one HDMI 2.0b connectors are provided. These allow for multi-monitor 'Eyefinity' setups, 4K and HDR.



# MIND PUNCH

1. Decipher the pattern.

9	+	8	=	117
10	+	6	=	416
15	+	3	=	1218
??	+	??	=	123

2. Your task is to move one matchstick to fix the equation.

**MOVE JUST ONE STICK  
TO FIX THE EQUATION**



3. What mathematical symbol can be placed between 5 ? 9, so that result will be greater than the numbers 5 and smaller than 9.

4. Try to find the encrypted message in the rebus.

**MOONCEON**

5. What is the end of everything?

**DO YOU  
KNOW?**

Mac users have reported that a macOS High Sierra bug is causing delays in message delivery like iMessages or SMS texts.



**19**

6. What single digit should go in the box with the question?

6	5	9	2	7
1	4	3	5	?
8	0	2	8	1

7. What can be seen in once in a month, twice in a moment and never in a thousand years.

8. If,

At=4,
Cat=6,
Crow=8,
Brain=10,
<b>Then find Twister =?</b>

9. The equation is 100% true,  $8+8=91$ , but how?

10. Which movie name is hidden in the pictogram rebus below?



**DO YOU  
KNOW?**

Google announced a new update to maps that allows users to virtually visit 16 celestial bodies including the planets and the moon.



**20**



# IT VITA

1. World's first fidget spinner phone launched by \_\_\_\_\_ country.
2. An online discussion group that allows direct "live" communication is known as \_\_\_\_\_.
3. The \_\_\_\_\_ interface transmits one bit at the time.
4. \_\_\_\_\_ is a port no of POP3.
5. \_\_\_\_\_ Software is used to detect electricity theft and meter misreading.
6. Mark Zuckerberg is the owner of \_\_\_\_\_.
7. Twitter may double tweet length to \_\_\_\_\_ characters.
8. Dubai has started testing world's first self-flying taxi called \_\_\_\_\_ for transportation.
9. In PPT, a new slide is inserted using shortcut key \_\_\_\_\_.
10. Total no of pins in a traditional parallel port is \_\_\_\_\_.
11. \_\_\_\_\_ device can detect alcohol counterfeits without opening the bottle by University of Manchester.
12. \_\_\_\_\_ in IP address cannot be assign to a computer system in a network.
13. In context of computer, FAT stands for \_\_\_\_\_.
14. \_\_\_\_\_ is a father of Bluetooth.
15. \_\_\_\_\_ company bought the popular video conferencing software 'Skype'.

**DO YOU  
KNOW?**

According to Russian cybersecurity firm Kaspersky Labs, an Adobe Flash bug was exploited by a group called BlackOasis, which used it to install malware on computers. The malware was called as FinSpy .



**21**



# FAMOUS AND FAVORITE

## Krishna Bharat



Krishna Bharat is an Indian research scientist formerly at Google Inc, where he led a team developing Google's news product. Among other projects, he opened the Research and Development center at Bengaluru. He is the creator of Google News, a service that automatically indexes over 25,000 news websites in more than 25 languages to provide a summary of the News resources. After the September 11, 2001 terrorist attacks, Krishna had this idea of Google News which he immediately implemented and is now Google third most visited section after Gmail and Google+.

<b>BORN</b>	<i>7 January 1970 (Age 47)</i>
<b>EDUCATION</b>	<i>Georgia Institute Of Technology, Indian Institute Of Technology Madras, St. Joseph's Boys' High School, Bangalore</i>
<b>OCCUPATION</b>	<i>Research Scientist At Google</i>
<b>AWARD</b>	<i>Distinguished Alumnus Award</i>

**DO YOU  
KNOW?**

US-based app developer Hexa has designed an app called 'Nude' which uses artificial intelligence (AI) to scan a user's camera roll and lock private photos.



**22**



# SOLUTION

POPOLOLO

## MIND PUNCH

1.  $12 - 11 = 1$  and  $12 + 11 = 23$
2.  $5 + 4 = 9$ ,  $8 - 4 = 4$  and  $0 + 4 = 4$
3. Decimal point - 5.9
4. Once in a blue moon
5. 'g' (The last letter)
6. 4 (Simply add the first and second rows together to get the third row value).
7. The letter M
8. 14 (It is number of letters of the word on the left multiplied by 2).
9. Turn the equation to 180 degrees (upside down),  $16 = 8 + 8$ .
10. Karate Kid (car + at + tea + kid)

## IT VITA

1. India.
2. Chat group.
3. Serial.
4. 110.
5. Artificial intelligence software.
6. Facebook.
7. 280.
8. Autonomous Air Taxi.
9. Ctrl + M.
10. 25.
11. Spatially offset Raman Spectroscopy (SORS).
12. 127.0.01.
13. File Allocation Table.
14. Ericsson.
15. Microsoft.

**DO YOU  
KNOW?**

Microsoft has built three tree houses at its corporate headquarters in Redmond, Washington, the company said in a blog post.



**23**

## ***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!!!...***