

Practical No 2)

a) Prepare Email Health Report.

Steps :-

1) Visit the web

<https://www.javainuse.com/Pgpgenerator>

2) Select the key size it is 2048

3) Enter all the necessary information - senders Email ID & User ID, Receivers Email ID and User ID

4) Click on Generate Key Button

5) Enter your message in the box having heading as Enter plain text to encrypt.

6) Enter sender public key & private key & click on encrypt button.

7) Copy the encrypted Message.

8) Go into PGP Decryption section.

9) Click on decrypt Message.

PGP :-

Pretty Good Privacy or PGP is popular program used to encrypt and decrypt email over the internet as well as authenticate messages with digital signatures and encrypted stored files.

PGP and similar software follow the openPGP

Standard (RFC 4880) for encrypting and decrypting data.

- What do you mean by decryption?

Decryption is a process that transforms encrypted information into its original format. The process of encryption transforms information from its original format - called plaintext - into an unreadable format - called ciphertext while it is being shared or transmitted.

- What is encryption?

Encryption is the process by which a readable message is converted to an unreadable form to prevent unauthorized parties from reading it.

Roll No. 24 Practical No. 2. b) Submitted on _____
Remarks _____ Returned on _____

b) Analyze Email headers.

Steps :-

i) visit the web

<https://mxtoolbox.com/Public/Tools/EmailHeaders.aspx>.

ii) Paste any Header from your Email Message.

iii) Now check the result.

What are Email Headers?

An Email Header or an Internet Header is Metadata that accompanies every email and contains detailed information, such as the sender, receiver, route, timestamp, and more. Mailbox and email Service providers use Email headers to authenticate the email senders and properly allocate an email in the inbox.

Information in the Email metadata is automatically generated. Even though there is a standard to what Email Metadata should include, there is no limit to what a mail server can add to it.

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Steps :-

- 1) Visit the web -
inurl /view /index .shtml < Place or area of webcom?
example - Inurl /view /index .shtml MumbaiAirport
 - 2) Enter the area / place as per our choice.
 - 3) Then the live cameras Mumbai option is shown.
 - 4) Click on it and the records are shown in records archive.
- 7 ways to check your cam has hacked.
 - 1) Check your security settings.
 - 2) Scan for Malware.
 - 3) Look for suspicious applications.
 - 4) Check your browser extensions.
 - 5) Check your file system.
 - 6) Check your webcam indicator light.
 - 7) Check your Network traffic.

Also commonly referred to as camfecting, Webcam hacking is a process of remotely accessing a camera. Hackers achieve this by distributing Malware through phishing attacks.

Roll No. 15 Practical No. 4 Submitted on _____
Remarks _____ Returned on _____

Steps :-

- 1) Open cmd (command prompt)
- 2) Create a notepad file using command
`C:\> notepad first.exe`
- 3) Notepad file with name first.txt will be created on screen.
- 4) Type the matter & save the file.
- 5) Open command prompt & type
`C:\> notepad first.txt :: second.txt`
- 6) Notepad file will be created & open on the screen.
Type the matter and save the file.
- 7) Go in the C:\> and see second.txt named notepad doesn't exist over there as it is hidden in the first.txt
- 8) To open second.txt Go to command prompt and
`C:\> notepad first.txt :: second.txt`

• What is steganography?

Steganography is the practice of concealing information within another message or physical object to avoid detection. Steganography can be used to hide virtually any type of digital content, including text, image, video, or audio content, that

hidden data is then extracted at its destination.

- What are the 5 Types of steganography?

- 1) Text steganography :-

Text steganography conceals a secret message inside a piece of text. The simplest version of text steganography might use the first letter in each sentence to form the hidden message. Other text steganography techniques might include adding meaningful types of encoding information through punctuation.

- 2) Image steganography :-

In image steganography, secret information is encoded within a digital image. This technique relies on the fact that small changes in image color or noise are very difficult to detect with the human eye. For ex - one image can be concealed within another by using the least significant bits of each pixel in the image to.

- 3) Video steganography :-

Video steganography is a more sophisticated version of image steganography that can encode entire videos. Because digital videos are represented as a sequence of consecutive images, each video frame can encode a separate image, hiding a coherent video in plain sight.

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Steps :-

- 1) open Gmail on the desktop.
- 2) Then singning in and click on the gmail setting tab.
- 3) In the security tab in gmail, click on the two - step varification feature.
- 4) Then two - step verification feature is on add then the gmail keep secured.
- 5) Also other security features are also enlisted over here

• Safe Browsing :-

Safe Browsing protects you by identifying dangerous links in email messages and warning you befor you visit the site.

• proactive alerts :-

Gmail warne you before you download an attachment that could put your security at risk.

• Account Safety :-

We protect your account against suspicious logins & unauthorised activity by Monitoring multiple security signals. We also offer the Advanced protection programme for accounts Most at risk of targeted attacks.

- Confidential Mode :-

You can make your messages expire after a set period of time and remove the option for recipients to forward, copy, download or print your message from Gmail.

- Email encryption :-

In Google infrastructure, messages are encrypted at rest and while in transit between data centres. Messages transiting to third-party providers are encrypted with Transport Layer Security when possible or required by configuration.

Roll No. 15 Practical No. 6 Submitted on _____
Remarks _____ Returned on _____

Steps :-

- 1) Go to the google and search find my device.
- 2) Then signing in Gmail in the desktop, make sure that email also sign in your Mobile device.
- 3) Then search on google find my device.
- 4) Make sure that always turn on your mobile location.
- 5) Then visit on the google find my device from the desktop with sign into your google account.
- 6) Then the map will come up on the screen with the details regarding the lost mobile.
- 7) Then click on play sound option : Make the device ring at its maximum volume for 5 minutes.
- 8) We can follow this way to find the lost mobile device easily.

• Track the location of a cell phone.

With Google maps, you can track your phone for free online. It is a free GPS phone tracker online with a real-time location tracking feature. It allows users to know precisely the location of others on the map. Google maps is more highly rated for communicating through verbal directions.

Remarks

than other maps.

Roll No. 15 Practical No. 7 Submitted on _____
Remarks _____ Returned on _____

Steps :-

1) Visit the web -

<https://whatismyipaddress.com/host-name-ip>

2) Then in the search list of look up the IP address
Type the website name for which you want to
find out the IP address.

3) Click on button - look up IP address

4) Then the result is shown on the screen.

5) All the preferred IP address is shown.

• IP Address Definition and Explanation

An Internet Protocol (IP) address is the unique identifying number assigned to every device connected to the internet. An IP address definition is a numeric label assigned to devices that use the internet to communicate.

• How Does an IP Address Work?

An IP address works in helping your device whatever you are accessing the internet on, to find whatever data or content is located to allow for retrieval. Common tasks for an IP address include both the

identification of a host or a network, or identifying the location of a device. An IP address is not random. The creation of an IP address has the basis of math. The Internet Assigned Numbers Authority (IANA) allocates ranges of IP addresses ~~can~~ and its creation. With the mathematical assignment of an IP address the unique identification to make a connection to a destination can be made.

- What is the Command Prompt:-

In Windows operating Systems, the Command Prompt is a program that emulates the input field in a text-based user interface screen with the Windows Graphical User Interface (UI).

It can be used to perform entered commands and perform advanced administrative functions. It can also be used to find troubleshoot and solve certain kinds of Windows issues.

Roll No. 15 Practical No. 8 Submitted on _____
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Steps :-

1) visit the web-

<https://whatsmydns.net/>

2) then in the search list of look up the dns type the website name for which you want to find out the dns.

3) click on button - Search..

4) Then the result is shown on the screen.

5) All the preferred DNS's is shown.

• What is DNS ?

The domain name system (DNS) is a naming database in which internet domain names are located and translated into Internet Protocol (IP) addresses. The domain name system maps the name people use to locate a website to the IP address that a computer uses to locate that website. The website The primary function of DNS is to convert Internet domain names & hostnames such as those in URLs from a web browser into IP-addresses. DNS is like directory of the internet where easily readable internet domain names get converted into numerical internet protocol.

- DNS Map :-

DNS Mapping is the process by which access providers, enterprise, governments, Universities, and other organizations, assign ranges of IP address for their domains.

It will provide the much-needed features to map a website with an existing domain.