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CSA5207-CYBER FORENSICS

EXPERIMENT-01

The Count of Deleted Files using Forensic Tools

Aim of the Experiment:

Identify the count of deleted files using forensic tools

Procedure:

Step 1: Download Recover myfile tool

URL: [Data recovery software download: Get Recover My Files here](#)

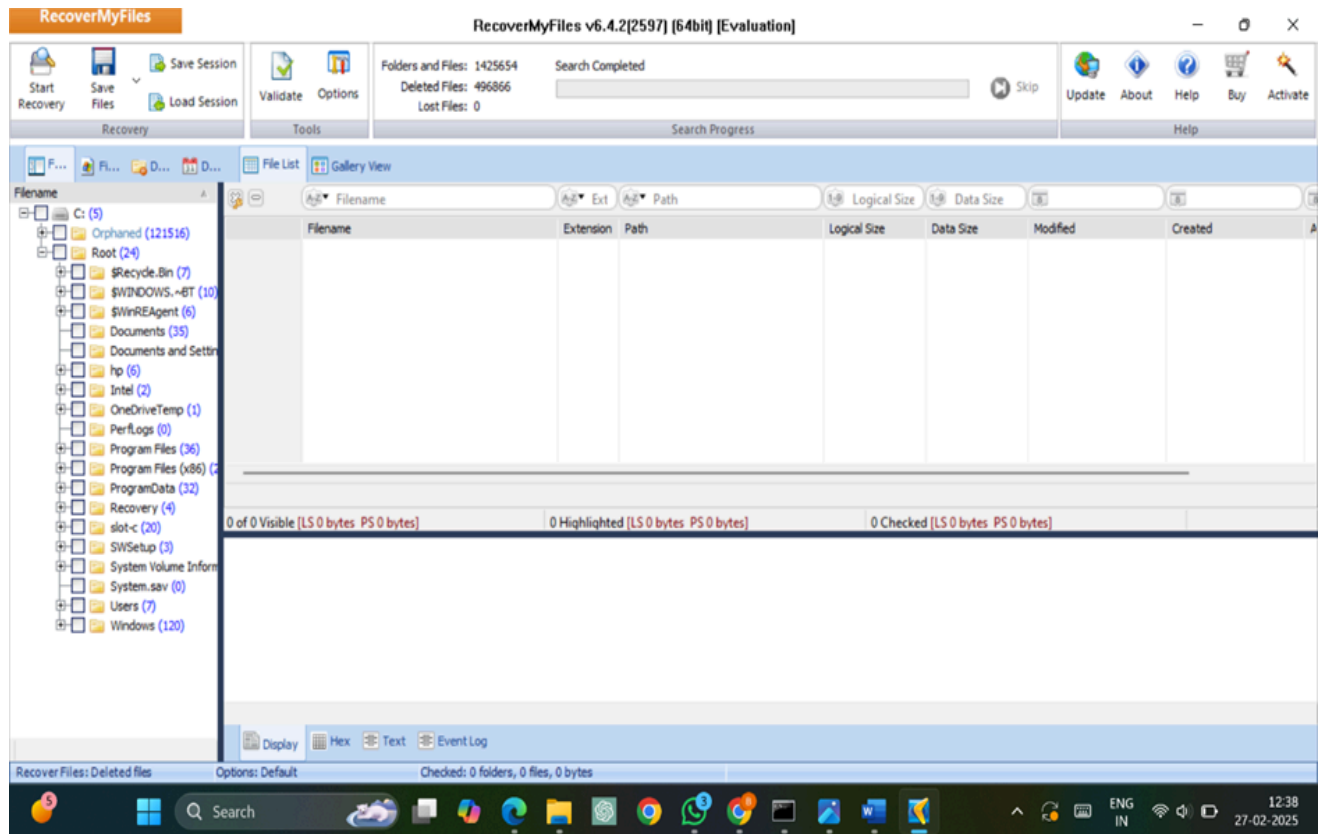
Step 2: Setup from the exe file downloaded

Step 3: Select the drive to recover the count of the deleted files

Step 4: Start the recover process

Step 5: Wait for the scanning process to complete

Step 6: After the completion of the scanning process, the count of the deleted files can be found and analysed. (Fig 1)



Result:

The experiment of Identifying the count of deleted files using forensic tools successfully executed.

EXPERIMENT-02

Hiding and extracting a text file behind an image file.

Aim of the Experiment:

To study the steps for hiding and extract any text file behind an image file using Command Prompt.

Any file like .rar .jpg .txt or any file can be merged inside another file. In a simple way, we shall learn how to hide a text file inside an image file using the Command Prompt.

How to Hide the FILE?

Suppose you have to hide a text file “A.txt” with the image file “B.jpg” and combine them in a new file as “C.jpg”. Where “C.jpg” is our output file which contains the text hidden in the image file.

Follow the steps:

1. copy the file need to hide, to desktop (for our tutorial let us assume the file to be "A.txt")
2. copy the image, within which you need to hide the file, to desktop (let it be "B.jpg")
3. now open the cmd: >ctrl+r >type: cmd and hit enter
4. in cmd first type the code as follows: >cd desktop NOTE: this code is for assigning the location on cmd to desktop
5. Now type the following code:

copy /b B.jpg + A.txt C.jpg

Syntax: *copy /b Name-of-file-containing-text-you-want-to-hide.txt + Name-of-initial- image.jpg Resulting-image-name.jpg*

1. Open Run command window by pressing win + r.
2. Open command prompt by typing cmd and press OK
3. Enter the directory where you have your files.
4. Then type the command: `echo "Your Message">>"image.jpg"`
5. Now the message is successfully hidden in the image file.
6. To view the message: Open with Notepad, at last, you'll find the Your Message

Result:

The experiment has been successfully executed.

EXPERIMENT-03

Hiding and extracting a text file behind an audio file.

Aim of the Experiment:

To study the steps for hiding and extract any text file behind an Audio file using Command Prompt.

Any file like .rar .jpg .txt or any file can be merged inside another file. In a simple way, we shall learn how to hide a text file inside an image file using the Command Prompt.

How to Hide the FILE?

Suppose you have to hide a text file “A.txt” with the image file “sound.mp3” and combine them in a new file as “newfile.mp3”. Where “newfile.mp3” is our output file which contains the text hidden in the image file.

Follow the steps:

6. copy the file need to hide, to desktop (for our tutorial let us assume the file to be "A.txt")
7. copy the audio, within which you need to hide the file, to desktop (let it be "sound.mp3")
8. now open the cmd: >ctrl+r >type: cmd and hit enter
9. in cmd first type the code as follows: >cd desktop NOTE: this code is for assigning the location on cmd to desktop
10. Now type the following code:

copy /b A.txt + sound.mp3 newfile.mp3

Syntax: *copy /b Name-of-file-containing-text-you-want-to-hide.txt + Name-of-initial- audio.mp3 Resulting-audio-name.mp3*

Done! Successfully opened! In the last of the notepad, you'll find the content of the text file.

Hide A Message into Audio:

7. Open the Run command window by pressing win + r.
8. Open command prompt by typing cmd and press OK
9. Enter the directory where you have your files.
10. Then type the command: `echo "Your Message">>"audio.mp3"`
11. Now the message is successfully hidden in the audio file.
12. To view the message: Open with Notepad, at last, you'll find the Your Message

Result:

The experiment has been successfully executed.

EXPERIMENT-04

Extract Exchangeable image file format (EXIF) Data

Aim of the Experiment:

How to Extract Exchangeable image file format (EXIF) Data from Image Files using Exif reader Software.

Procedure:

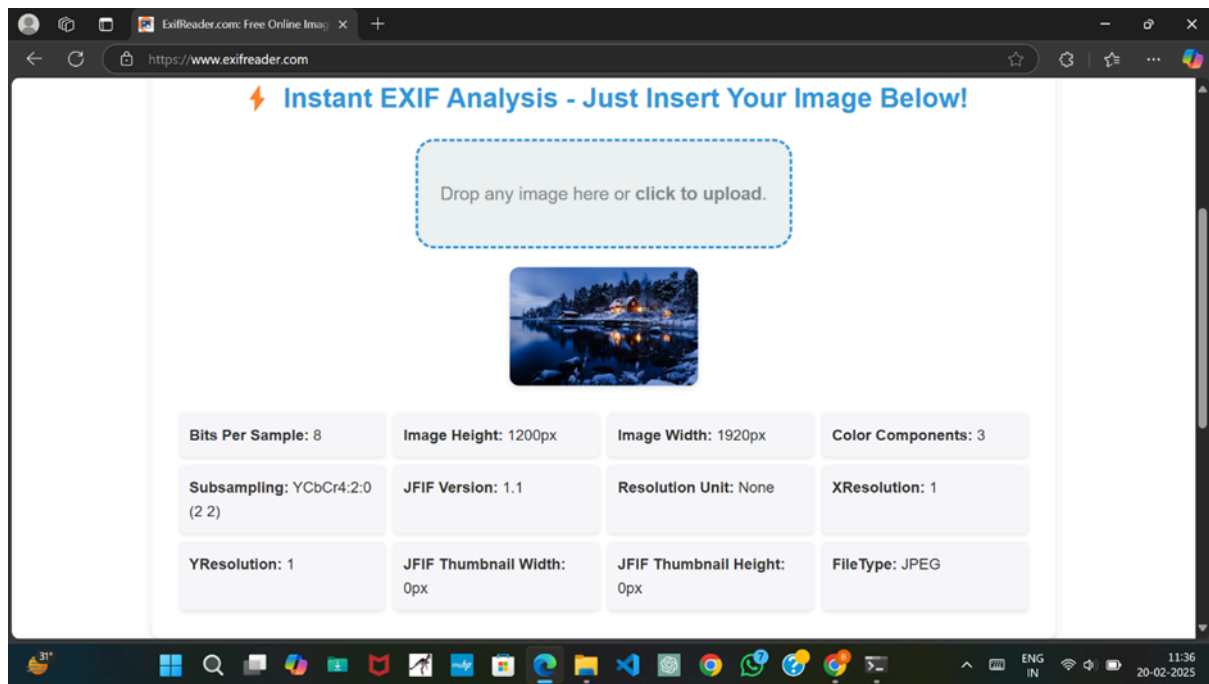
Step 1: Visit The given URL belowURL: [exifreader.com](https://www.exifreader.com)

Step 2: Find an Appropriate image



Step 3: Select the image file and upload the image file

Step 4: Analyse the exif features of the image



Step 5: After the completion of the analysing the image, you can find the result as the above image.

Result:

The experiment has been successfully executed.

EXPERIMENT-05

Extract Chrome History using forensic tools

Aim of the Experiment:

To Extract Chrome history using forensic tools and analyse them.

Procedure:

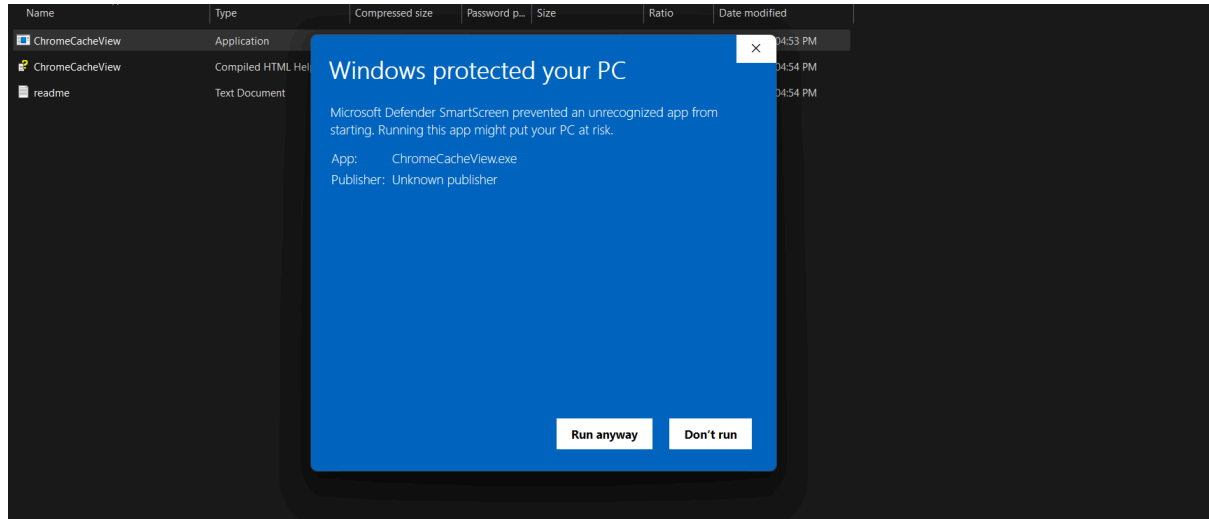
Step 1: Download Browsing History View tool

URL:

<https://sourceforge.net/projects/browsinghistoryview/>

Step 2: Setup from the exe file downloaded

Step 3: Click run anyway when the below dialog box appears



Step 4: Start the Browsing History View Tool

Step 5: Wait for the scanning process to complete

Step 6: After the completion of the scanning process, the chrome history view can be found and analysed.

ChromeHistoryView						
File Edit View Options Help						
URL	Title	Visited On	Visit Count	Typed Count	Referrer	
chrome-extension://fheoggkfdfchfphceifdbepao...	McAfee® WebAdvisor - Website S...	20-02-2025 11:18:42	1	0		
http://180.235.121.245/	180.235.121.245	18-07-2024 08:51:35	4	1	http://180.235.121.	
http://180.235.121.245/	180.235.121.245	18-07-2024 08:51:35	4	1	http://180.235.121.	
http://180.235.121.245/	180.235.121.245	18-07-2024 08:51:35	4	1	http://180.235.121.	
http://180.235.121.245/	180.235.121.245	18-07-2024 08:51:35	4	1	http://180.235.121.	
http://180.235.121.245/dashboard/	180.235.121.245	18-07-2024 09:31:51	1	0		
http://180.235.121.245/dashboard/	180.235.121.245	18-07-2024 08:51:35	1	0	http://180.235.121.	
http://180.235.121.245/simatsplacement/	STUDENT LOGIN	18-07-2024 10:16:29	1	1		
http://arms.sse.saveetha.com/	Saveetha University	29-12-2024 12:08:58	1	0	https://www.googl	
http://careers.capgemini.com/job/Bangalore-Softw...	Software Engineer Job Details Ca...	06-01-2025 22:53:01	2	0	https://www.googl	
http://careers.capgemini.com/job/Bangalore-Softw...	Software Engineer Job Details Ca...	06-01-2025 22:48:37	2	0	https://www.googl	
http://coinstoreym.cc/		06-12-2024 15:05:41	1	0		
http://digiopinion.com/in/?utm_source=survimo.c...	Paid surveys - Earn money by takin...	10-12-2024 23:24:52	1	0		
http://ecs.ibomma.day/d/The-Family-Star-2024-rA...	The Family Star Telugu Movie Watc...	17-01-2025 13:10:49	1	0	https://ecs.ibomma	
http://eliteforgetful.com/api/users?token=L3dqdW...		03-01-2025 02:12:58	1	0	https://kdeuymio	
http://freshers.hdtech.com/?utm_source=OnCamp...	Home	04-01-2025 21:12:56	1	0	https://www.googl	
http://gaddin.com/index.php?partner=374f68e4&a...	Gaddin Club Privé de Consomma...	10-12-2024 22:51:30	1	0	https://www.gaddi	
http://gaddin.com/index.php?partner=374f68e4&a...	Gaddin Club Privé de Consomma...	10-12-2024 22:52:06	1	0	https://www.gaddi	

Result:

The experiment has been successfully executed

EXPERIMENT-06

Extract Chrome cache using forensic tools

Aim of the Experiment:

To Extract Chrome cache using forensic tools and analyse them.

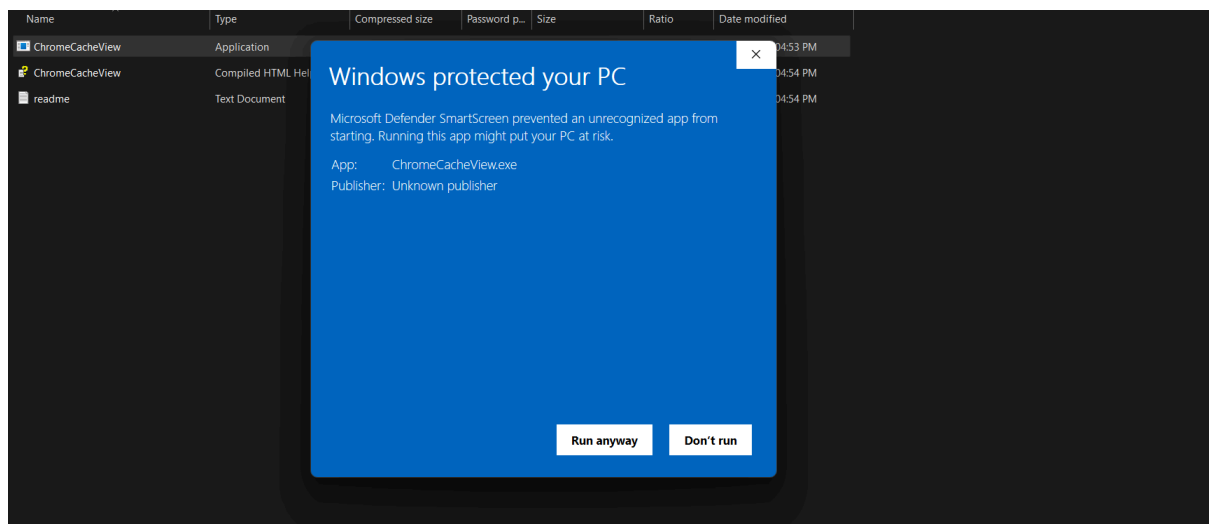
Procedure:

Step 1: Download Chrome cache View tool

URL: <https://sourceforge.net/projects/chromecacheview/>

Step 2: Setup from the exe file downloaded

Step 3: Click run anyway when the below dialog box appears



Step 4: Start the Chrome Cache View Tool

Step 5: Wait for the scanning process to complete

Step 6: After the completion of the scanning process, the chrome cache view can be found and analysed.

ChromeCacheView: C:\Users\Baby durga\AppData\Local\Google\Chrome\User Data\Profile 1\Cache\Cache_Data						
File Edit View Options Help						
Filename	URL	Content Type	File Size	Last Accessed	Server Time	
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	24-01-2025 10:55:19	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		74	20-02-2025 11:18:56	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		83	24-01-2025 10:44:15	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		83	24-01-2025 10:44:15	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	24-01-2025 11:05:04	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		83	24-01-2025 10:44:15	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		76	24-01-2025 10:44:15	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	19-02-2025 14:49:27	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	19-02-2025 14:49:27	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	19-02-2025 14:49:27	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	24-01-2025 11:05:04	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	24-01-2025 11:05:04	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	24-01-2025 11:05:04	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		87	24-01-2025 10:41:51	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		0	26-01-2025 15:36:17	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		76	28-08-2024 13:31:37	01-01-1601 05:30:00	(
	https://pr-bhybp.yahoo.com/sync/rubicon/4-lopqF6_lqt1gPus...		0	19-02-2025 14:49:27	01-01-1601 05:30:00	(
	https://threat.api.mcafee.com/network/v1/query/url/aHR0cHM...		75	19-02-2025 14:49:27	01-01-1601 05:30:00	(

Result:

The experiment has been successfully executed

EXPERIMENT-07

Extract last activity using forensic tools

Aim of the Experiment:

To Extract the last activity view using forensic tools and analyse them.

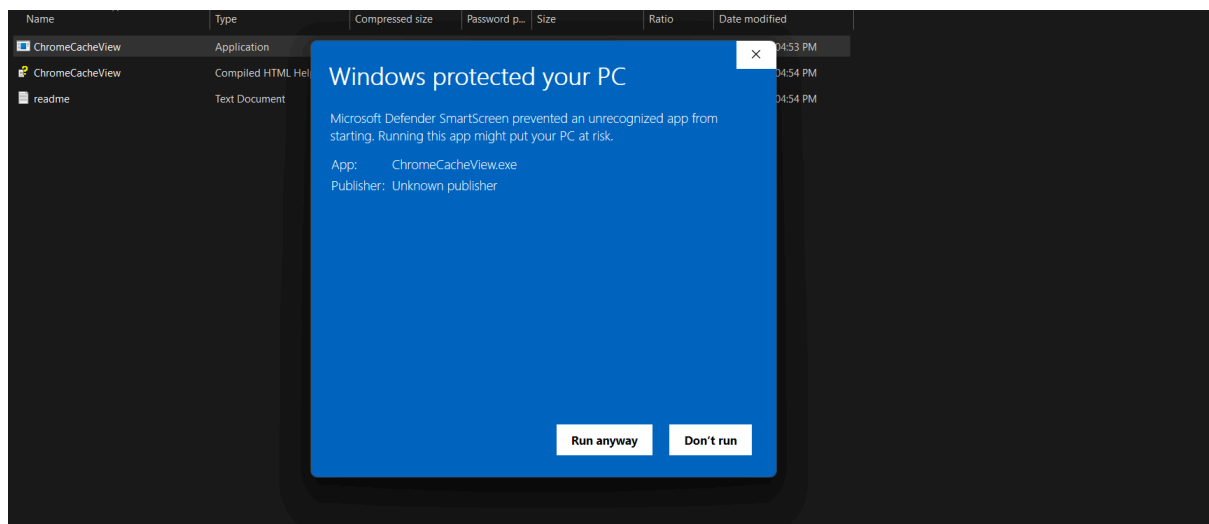
Procedure:

Step 1: Download last activity view View tool

URL: <https://www.softportal.com/en/lastactivityview/windows/software>

Step 2: Setup from the exe file downloaded

Step 3: Click run anyway when the below dialog box appears



Step 4: Start the last activity view View Tool

Step 5: Wait for the scanning process to complete

Step 6: After the completion of the scanning process, the last activity view can be found and analysed.

LastActivityView						
File Edit View Options Help						
Action Time	Description	Filename	Full Path	More Information	File Extension	Data Source
2/21/2025 1:10:5...	Task Run	wpcmon.exe	C:\WINDOWS\System32\wpcmon.exe	FamilySafetyMonitor, \...	exe	
2/21/2025 1:10:4...	Run .EXE file	WPCTOK.EXE	C:\WINDOWS\SYSTEM32\WPCTOK.EXE	Microsoft Corporation, ...	EXE	C:\WINDOWS\Prefetch\WPCTOK.EXE-CD4FED7D.pf
2/21/2025 1:10:4...	Run .EXE file	CONHOST.EXE	C:\WINDOWS\SYSTEM32\CONHOST.EXE	Microsoft Corporation, ...	EXE	C:\WINDOWS\Prefetch\CONHOST.EXE-0C6456FB.pf
2/21/2025 1:10:4...	Task Run	WpcRefreshTask.dll	C:\WINDOWS\System32\WpcRefreshTask.dll	FamilySafetyRefreshTask...	dll	
2/21/2025 1:10:3...	Run .EXE file	NEARBY_SHARE.EXE	C:\PROGRAM FILES\Google\NEARBYSHAR...	Google, Quick Share, Qu...	EXE	C:\WINDOWS\Prefetch\NEARBY_SHARE.EXE-1919AD13.pf
2/21/2025 1:10:3...	Run .EXE file	CONSENT.EXE	C:\WINDOWS\SYSTEM32\CONSENT.EXE	Microsoft Corporation, ...	EXE	C:\WINDOWS\Prefetch\CONSENT.EXE-40419367.pf
2/21/2025 1:10:3...	Run .EXE file	msedge.exe	C:\PROGRAM FILES (X86)\MICROSOFT\Edg...	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\MSEdge.EXE-37D25F98.pf
2/21/2025 1:10:3...	Task Run	LocationNotificationWi...	C:\WINDOWS\System32\LocationNotificati...	Notifications, \Microsof...	exe	
2/21/2025 1:10:3...	Run .EXE file	rundll32.exe	C:\Windows\System32\rundll32.exe	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\RUNDLL32.EXE-75313621.pf
2/21/2025 1:10:3...	Open file or folder	lastactivityview.zip	C:\Users\HITESH\Downloads\lastactivityvie...		zip	C:\Users\HITESH\AppData\Roaming\Microsoft\Windows\R...
2/21/2025 1:10:3...	View Folder in Explorer	HITESH	C:\Users\HITESH			HKEY_CURRENT_USER\Software\Classes\Local Settings\Soft...
2/21/2025 1:10:3...	Run .EXE file	dllhost.exe	C:\Windows\System32\dllhost.exe	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\DLLHOST.EXE-5BFBA594.pf
2/21/2025 1:10:3...	Run .EXE file	dllhost.exe	C:\Windows\System32\dllhost.exe	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\DLLHOST.EXE-7D5CE0CA.pf
2/21/2025 1:10:2...	Run .EXE file	chrome.exe	C:\PROGRAM FILES\Google\Chrome\APPL...	Google LLC, Google Chr...	exe	C:\WINDOWS\Prefetch\CHROME.EXE-AED7BA48.pf
2/21/2025 1:10:2...	Run .EXE file	updater.exe	C:\PROGRAM FILES (X86)\Google\GOOGLE...	Google LLC, Google Up...	exe	C:\WINDOWS\Prefetch\UPDATER.EXE-1C7C4388.pf
2/21/2025 1:10:2...	Run .EXE file	MSEdgeWEBVIEW2.EXE	C:\PROGRAM FILES (X86)\MICROSOFT\ED...	Microsoft Corporation, ...	EXE	C:\WINDOWS\Prefetch\MSEdgeWEBVIEW2.EXE-F1E41483.pf
2/21/2025 1:10:1...	Task Run	WiFiCloudStore.dll	C:\Windows\System32\WiFiCloudStore.dll	CDSync, \Microsoft\Wi...	dll	
2/21/2025 1:10:1...	Run .EXE file	ASUSHOTKEY.EXE	C:\Windows\System32\DRIVERSTORE\FILER...	ASUSTek COMPUTER IN...	EXE	C:\WINDOWS\Prefetch\ASUSHOTKEY.EXE-95361D76.pf
2/21/2025 1:10:1...	Run .EXE file	ASUSKEYBOARDHOST.E...	C:\PROGRAM FILES\WINDOWSAPPS\B9EC...	ASUSTek COMPUTER IN...	EXE	C:\WINDOWS\Prefetch\ASUSKEYBOARDHOST.EXE-ADCC89
2/21/2025 1:10:0...	Run .EXE file	BROWSERHOST.EXE	C:\PROGRAM FILES\McAfee\WEBADVISOR...	McAfee, LLC, McAfee W...	EXE	C:\WINDOWS\Prefetch\BROWSERHOST.EXE-58BE5334.pf
2/21/2025 1:10:0...	Run .EXE file	cmd.exe	C:\Windows\System32\cmd.exe	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\CMD.EXE-0BD30981.pf
2/21/2025 1:10:0...	Run .EXE file	msedge.exe	C:\PROGRAM FILES (X86)\MICROSOFT\Edg...	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\MSEdge.EXE-37D25FA7.pf
2/21/2025 1:10:0...	Run .EXE file	msedge.exe	C:\PROGRAM FILES (X86)\MICROSOFT\Edg...	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\MSEdge.EXE-37D25F9E.pf
2/21/2025 1:10:0...	Run .EXE file	chrome.exe	C:\PROGRAM FILES\Google\Chrome\APPL...	Google LLC, Google Chr...	exe	C:\WINDOWS\Prefetch\CHROME.EXE-AED7BA4A.pf
2/21/2025 1:10:0...	Run .EXE file	chrome.exe	C:\PROGRAM FILES\Google\Chrome\APPL...	Google LLC, Google Chr...	exe	C:\WINDOWS\Prefetch\CHROME.EXE-AED7BA3D.pf
2/21/2025 1:10:0...	Run .EXE file	chrome.exe	C:\PROGRAM FILES\Google\Chrome\APPL...	Google LLC, Google Chr...	exe	C:\WINDOWS\Prefetch\CHROME.EXE-AED7BA45.pf
2/21/2025 1:10:0...	Run .EXE file	svchost.exe	C:\Windows\System32\svchost.exe	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\SVCHOST.EXE-5F87ABED.pf
2/21/2025 1:10:0...	Run .EXE file	dllhost.exe	C:\Windows\System32\dllhost.exe	Microsoft Corporation, ...	exe	C:\WINDOWS\Prefetch\DLLHOST.EXE-7D5CE0CA.pf
2/21/2025 1:10:0...	Run .EXE file	chrome.exe	C:\PROGRAM FILES\Google\Chrome\APPL...	Google LLC, Google Chr...	exe	C:\WINDOWS\Prefetch\CHROME.EXE-AED7BA40.pf
2/21/2025 1:10:0...	Run .EXE file	chrome.exe	C:\PROGRAM FILES\Google\Chrome\APPL...	Google LLC, Google Chr...	exe	C:\WINDOWS\Prefetch\CHROME.EXE-AED7BA3C.pf

4202 item(s)

NirSoft Freeware. <https://www.nirsoft.net>

Result:

The experiment has been successfully executed

EXPERIMENT-08

Extract USB devices using forensic tools

Aim of the Experiment:

To Extract the connected external devices using forensic tools and analyse them.

Procedure:

Step 1: Download previous USB devices view tool

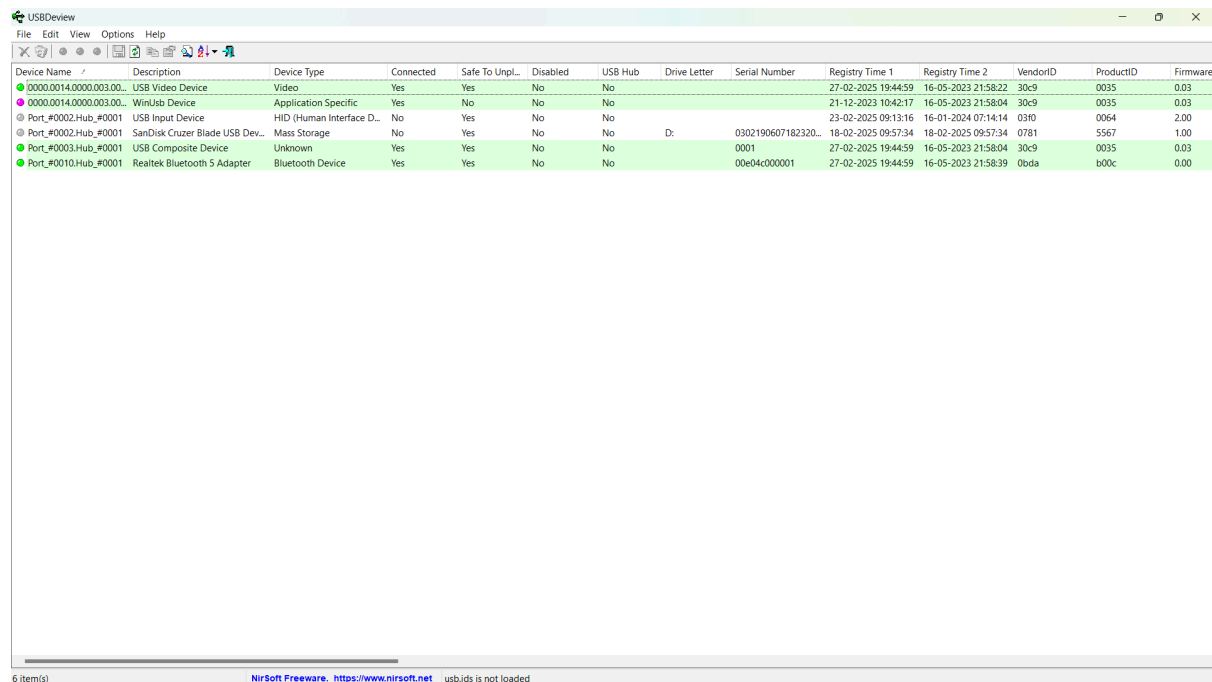
URL: [USBDeview download | SourceForge.net](https://sourceforge.net/projects/usbdevview/)

Step 2: Setup from the exe file downloaded

Step 4: Start the USB devices view Tool

Step 5: Wait for the scanning process to complete

Step 6: After the completion of the scanning process, the USB devices view can be found and analysed.



The screenshot shows the USBDeview application window. The title bar is 'USBDeview'. The menu bar includes 'File', 'Edit', 'View', 'Options', and 'Help'. The toolbar contains various icons for file operations. The main window displays a table of USB devices. The table has columns: Device Name, Description, Device Type, Connected, Safe To Unpl..., Disabled, USB Hub, Drive Letter, Serial Number, Registry Time 1, Registry Time 2, VendorID, ProductID, and Firmware. The table lists several devices, including a USB Video Device, WinUsb Device, USB Input Device, SanDisk Cruzer Blade USB Dev., USB Composite Device, and Realtek Bluetooth S Adapter. The status bar at the bottom indicates '6 item(s)' and 'usbids is not loaded'.

Device Name	Description	Device Type	Connected	Safe To Unpl...	Disabled	USB Hub	Drive Letter	Serial Number	Registry Time 1	Registry Time 2	VendorID	ProductID	Firmware
0000.0014.0000.003.00...	USB Video Device	Video	Yes	Yes	No	No			27-02-2025 19:44:59	16-05-2023 21:58:22	30c9	0035	0.03
0000.0014.0000.003.00...	WinUsb Device	Application Specific	Yes	No	No	No			21-12-2023 10:42:17	16-05-2023 21:58:04	30c9	0035	0.03
Port_#0002.Hub_#0001	USB Input Device	HID (Human Interface D...	No	Yes	No	No			23-02-2025 09:13:16	16-01-2024 07:14:14	03b0	0064	2.00
Port_#0002.Hub_#0001	SanDisk Cruzer Blade USB Dev...	Mass Storage	No	Yes	No	No	D:	0302190607182320...	18-02-2025 09:57:34	18-03-2025 09:57:34	0781	5567	1.00
Port_#0003.Hub_#0001	USB Composite Device	Unknown	Yes	Yes	No	No		0001	27-02-2025 19:44:59	16-05-2023 21:58:04	30c9	0035	0.03
Port_#0010.Hub_#0001	Realtek Bluetooth S Adapter	Bluetooth Device	Yes	Yes	No	No		00e04c000001	27-02-2025 19:44:59	16-05-2023 21:58:39	0bda	b00c	0.00

Result:

The experiment has been successfully executed

EXPERIMENT 9

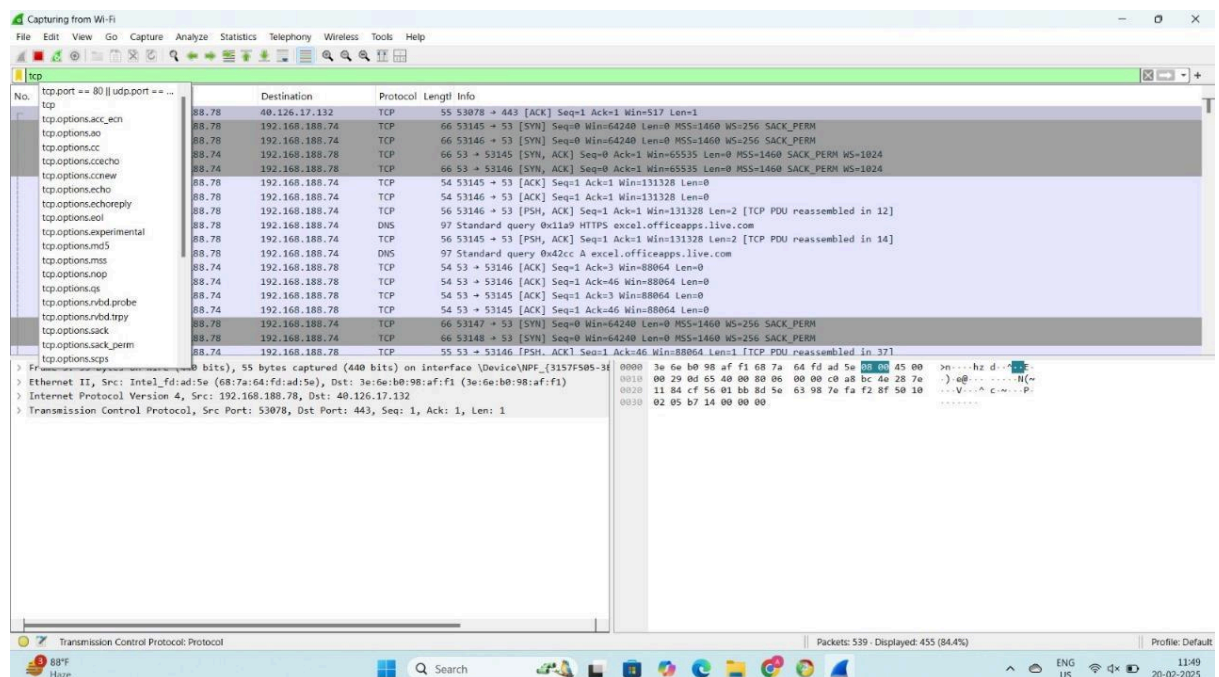
TRANSPORT LAYER PROTOCOL HEADER ANALYSIS USING WIRESHARK-TCP

Aim: To analyze capturing of Transport layer protocol header analysis using Wire shark- TCP.

SOFTWARE USED: Wire shark network analyzer

Procedure:

1. Open wire shark.
2. Click on list the available capture interface.
3. Choose the wifi interface.
4. Click on the start button.
5. Active packets will be displayed.
6. Capture the packets & select any IP address from the source.
7. Click on the expression and select IPV4 →IP address source address in the field name.
8. Select the double equals (==) from the selection and enter the selected IP source address.
9. Click on the apply button.
10. All the packets will be filtered using the source address.



Result:

Hence, the capturing of packets using wire shark network analyzer was analyzed for TCP.

EXPERIMENT 10

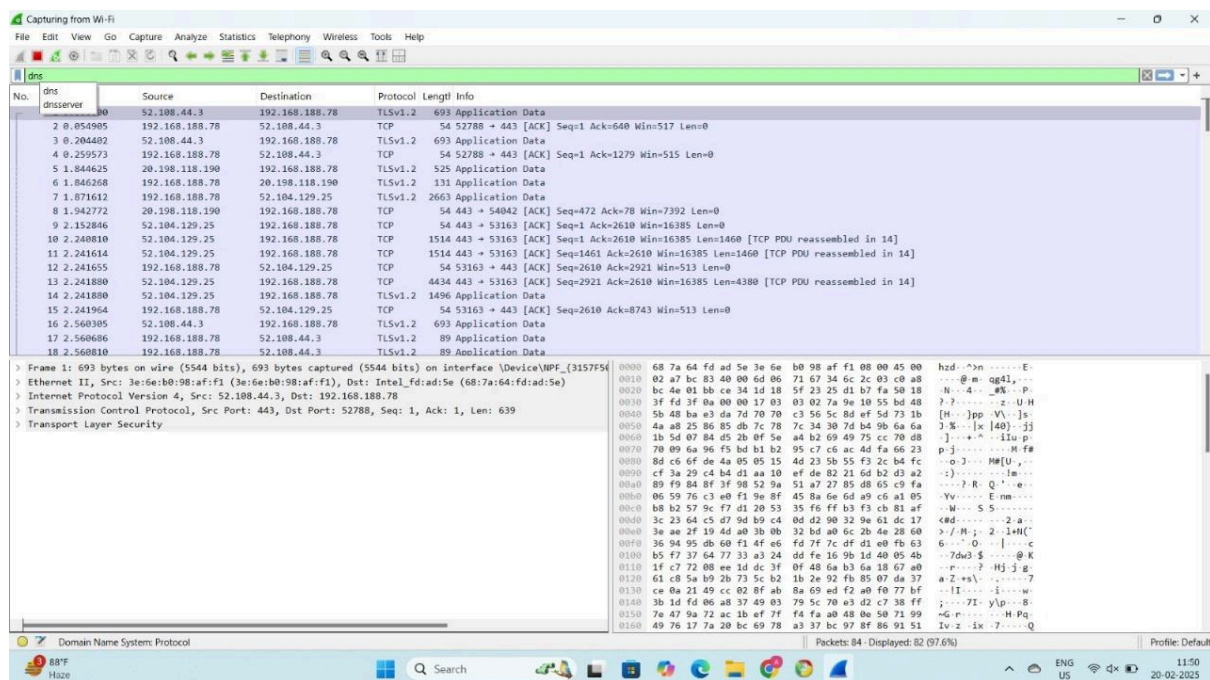
TRANSPORT LAYER PROTOCOL HEADER ANALYSIS USING WIRESHARK-DNS

Aim: To analyze capturing of Transport layer protocol header analysis using Wire shark- DNS.

SOFTWARE USED: Wire shark network analyzer

Procedure:

11. Open wire shark.
12. Click on list the available capture interface.
13. Choose the wifi interface.
14. Click on the start button.
15. Active packets will be displayed.
16. Capture the packets & select any IP address from the source.
17. Click on the expression and select IPV4 →IP address source address in the field name.
18. Select the double equals (==) from the selection and enter the selected IP source address.
19. Click on the apply button.
20. All the packets will be filtered using the source address.



Result:

Hence, the capturing of packets using wire shark network analyzer was analyzed for DNS.

EXPERIMENT 11

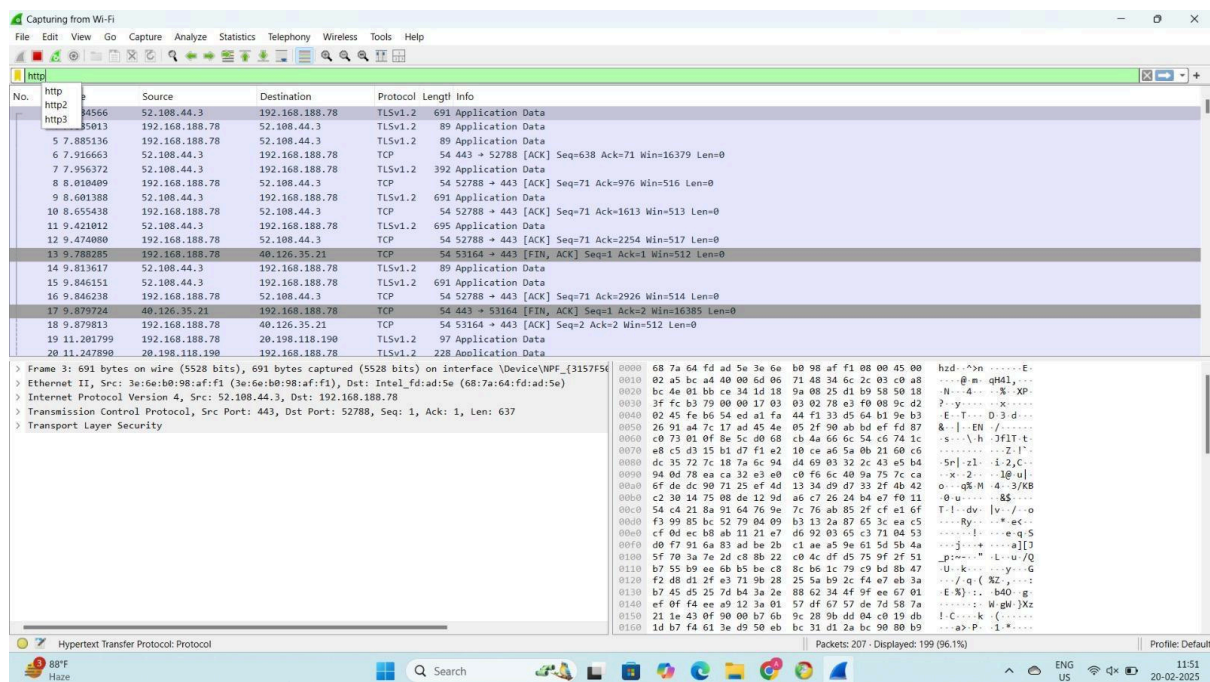
TRANSPORT LAYER PROTOCOL HEADER ANALYSIS USING WIRESHARK-HTTP

Aim: To analyze capturing of Transport layer protocol header analysis using Wire shark- HTTP.

SOFTWARE USED: Wire shark network analyzer

Procedure:

21. Open wire shark.
22. Click on list the available capture interface.
23. Choose the wifi interface.
24. Click on the start button.
25. Active packets will be displayed.
26. Capture the packets & select any IP address from the source.
27. Click on the expression and select IPV4 → IP address source address in the field name.
28. Select the double equals (==) from the selection and enter the selected IP source address.
29. Click on the apply button.
30. All the packets will be filtered using the source address.



Result:

Hence, the capturing of packets using wire shark network analyzer was analyzed for HTTP.

EXPERIMENT 12

Identifying Hidden Processes and terminate processes

Aim: To Identify Hidden Processes and terminate processes.

SOFTWARE USED: CMD prompt.

Procedure:

1. Open cmd with run as administrator.
2. List all running processes:

tasklist

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.

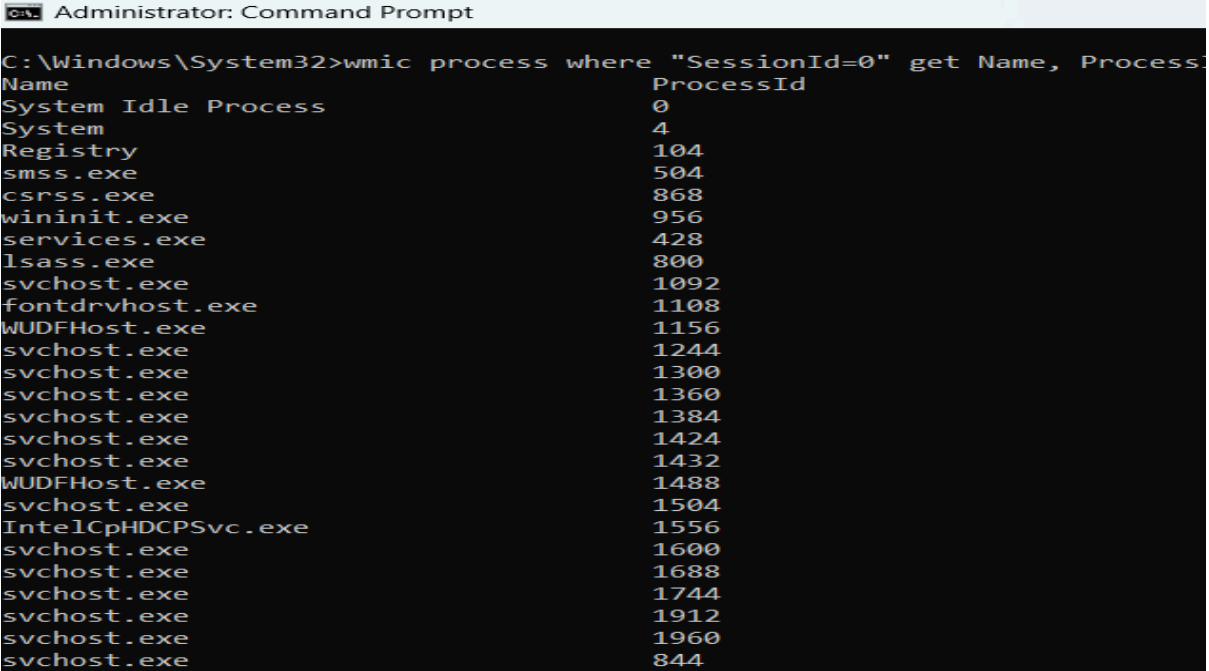
C:\Windows\System32>tasklist
```

Image Name	PID	Session Name	Session#	Mem Usage
System Idle Process	0	Services	0	8 K
System	4	Services	0	136 K
Registry	104	Services	0	23,660 K
smss.exe	504	Services	0	N/A
csrss.exe	868	Services	0	2,176 K
wininit.exe	956	Services	0	N/A
csrss.exe	976	Console	1	2,476 K
winlogon.exe	612	Console	1	1,928 K
services.exe	428	Services	0	5,272 K
lsass.exe	800	Services	0	12,036 K
svchost.exe	1092	Services	0	18,920 K
fontdrvhost.exe	1100	Console	1	1,688 K
fontdrvhost.exe	1108	Services	0	28 K
WUDFHost.exe	1156	Services	0	20 K
svchost.exe	1244	Services	0	12,780 K
svchost.exe	1300	Services	0	3,028 K
svchost.exe	1360	Services	0	2,528 K
svchost.exe	1384	Services	0	3,280 K
svchost.exe	1424	Services	0	2,672 K
svchost.exe	1432	Services	0	2,288 K
WUDFHost.exe	1488	Services	0	4,816 K
svchost.exe	1504	Services	0	2,808 K
IntelCpHDCPSvc.exe	1556	Services	0	16 K
svchost.exe	1600	Services	0	1,072 K
svchost.exe	1688	Services	0	7,980 K
dwm.exe	1720	Console	1	1,34,452 K

3. The above command will list all running tasks.

- now run the below command to list all the hidden tasks

wmic process where "SessionId=0" get Name, ProcessId



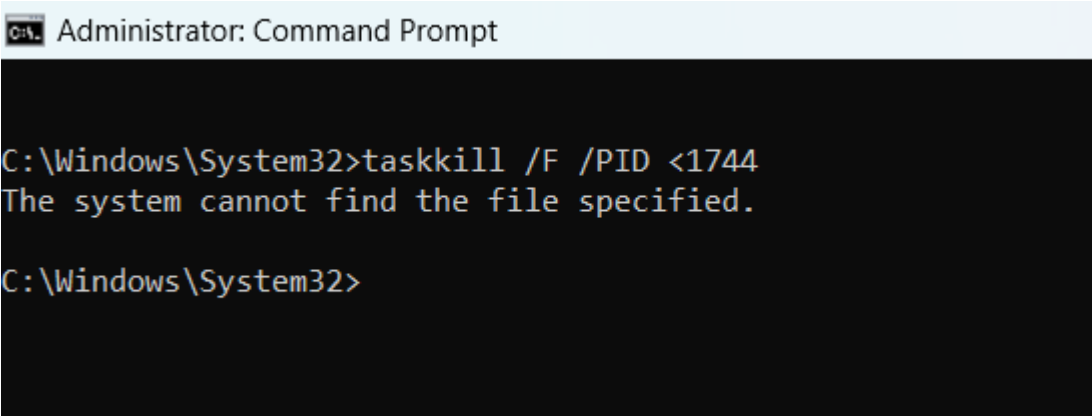
Administrator: Command Prompt

```
C:\Windows\System32>wmic process where "SessionId=0" get Name, ProcessId
Name                                ProcessId
System Idle Process                 0
System                              4
Registry                            104
smss.exe                            504
csrss.exe                           868
wininit.exe                         956
services.exe                       428
lsass.exe                           800
svchost.exe                         1092
fontdrvhost.exe                    1108
WUDFHost.exe                        1156
svchost.exe                         1244
svchost.exe                         1300
svchost.exe                         1360
svchost.exe                         1384
svchost.exe                         1424
svchost.exe                         1432
WUDFHost.exe                        1488
svchost.exe                         1504
IntelCpHDCPSvc.exe                 1556
svchost.exe                         1600
svchost.exe                         1688
svchost.exe                         1744
svchost.exe                         1912
svchost.exe                         1960
svchost.exe                         844
```

- The above command will list all running hidden tasks.
- to terminate any running task run the below command

taskkill /F /PID <PID_NUMBER>

- The Pid_number should be the ID of the process.



Administrator: Command Prompt

```
C:\Windows\System32>taskkill /F /PID <1744
The system cannot find the file specified.

C:\Windows\System32>
```

Result:

Hence, the termination of the running process can be executed successfully.

EXPERIMENT 13

Hiding a ZIP File Inside an Image

Aim: To Hide a ZIP File Inside an Image.

SOFTWARE USED: CMD prompt.

Procedure:

1. Place the image file (cover.jpg) and ZIP file (secret.zip) in the same folder.
2. Open cmd inside the folder.
3. Run the following cmd

copy /b cover.jpg + secret.zip hidden.jpg

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\System32\cmd.e' with a close button. The window content shows the Microsoft Windows version (10.0.22631.4751) and copyright information. The command prompt shows the directory 'C:\Users\Baby durga\OneDrive\Desktop\New folder' and the command 'copy /b cover.jpg + secret.zip hidden.jpg'. The output is 'cover.jpg' followed by '1 file(s) copied.' on the next line.

8. hidden.jpg will look like a normal image but contains the hidden ZIP file.
9. To view the hidden file run the below cmd

ren hidden.jpg secret.zip

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\System32\cmd.e' with a close button. The window content shows the Microsoft Windows version (10.0.22631.4751) and copyright information. The command prompt shows the directory 'C:\Users\Baby durga\OneDrive\Desktop\New folder' and the command 'ren hidden.jpg secret.zip'. The output is 'C:\Users\Baby durga\OneDrive\Desktop\New folder>' on the next line.

10. After the above cmd the hidden file will be restored.

Result:

Hence, hiding the file command executed successfully.

EXPERIMENT 14

View All Wi-Fi Passwords Saved on the Computer

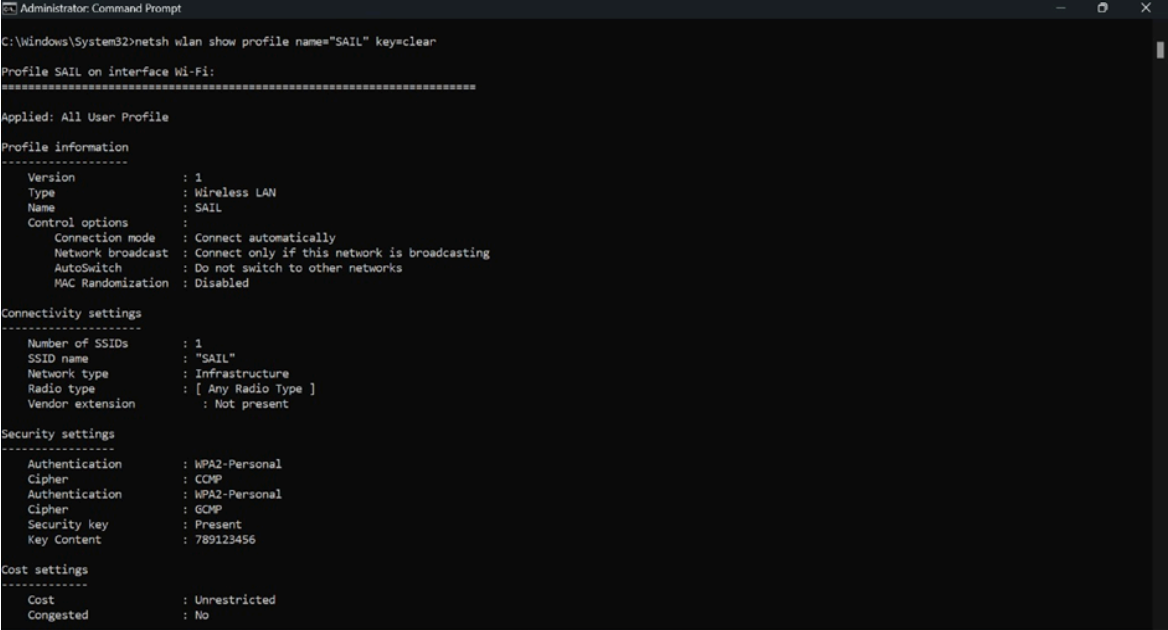
Aim: To View All Wi-Fi Passwords Saved on the Computer.

SOFTWARE USED: CMD prompt.

Procedure:

1. Open Command prompt as administrator
2. Run below command to see all saved Wi-Fi networks

netsh wlan show profiles



```
Administrator: Command Prompt
C:\Windows\System32>netsh wlan show profile name="SAIL" key=clear

Profile SAIL on interface Wi-Fi:
=====
Applied: All User Profile

Profile information
-----
Version           : 1
Type              : Wireless LAN
Name              : SAIL
Control options   :
    Connection mode : Connect automatically
    Network broadcast : Connect only if this network is broadcasting
    AutoSwitch       : Do not switch to other networks
    MAC Randomization : Disabled

Connectivity settings
-----
Number of SSIDs   : 1
SSID name         : "SAIL"
Network type      : Infrastructure
Radio type        : [ Any Radio Type ]
Vendor extension   : Not present

Security settings
-----
Authentication    : WPA2-Personal
Cipher            : CCMP
Authentication    : WPA2-Personal
Cipher            : GCMP
Security key       : Present
Key Content        : 789123456

Cost settings
-----
Cost               : Unrestricted
Congested          : No
```

3. To see the password for a specific Wi-Fi network, use below cmd

**netsh wlan show profile name="WiFi-Network-Name"
key=clear**

```
Administrator: Command Prompt

C:\Windows\System32>netsh wlan show profile name="SAIL" key=clear

Profile SAIL on Interface Wi-Fi:
=====

Applied: All User Profile

Profile information
=====
Version           : 1
Type              : Wireless LAN
Name              : SAIL
Control options   :
Connection mode   : Connect automatically
Network broadcast : Connect only if this network is broadcasting
AutoSwitch        : Do not switch to other networks
PMF Randomization : Disabled

Connectivity settings
=====
Number of SSIDs   : 1
SSID name         : "SAIL"
Network type      : Infrastructure
Radio type        : [ Any Radio Type ]
Vendor extension   : Not present

Security settings
=====
Authentication    : WPA2-Personal
Cipher            : CCMP
Authentication    : WPA2-Personal
Cipher            : GCMP
Security key       : Present
Key Content        : 789123456

Cost settings
=====
Cost              : Unrestricted
Congested         : No
Approaching Data Limit : No
Over Data Limit   : No
Roaming           : No
Cost Source       : Default

C:\Windows\System32>
```

4. Now the password of the desired password is found.

Result:

Hence, the password of the desired wifi is executed successfully.

EXPERIMENT 15

To extract the recent login and logout

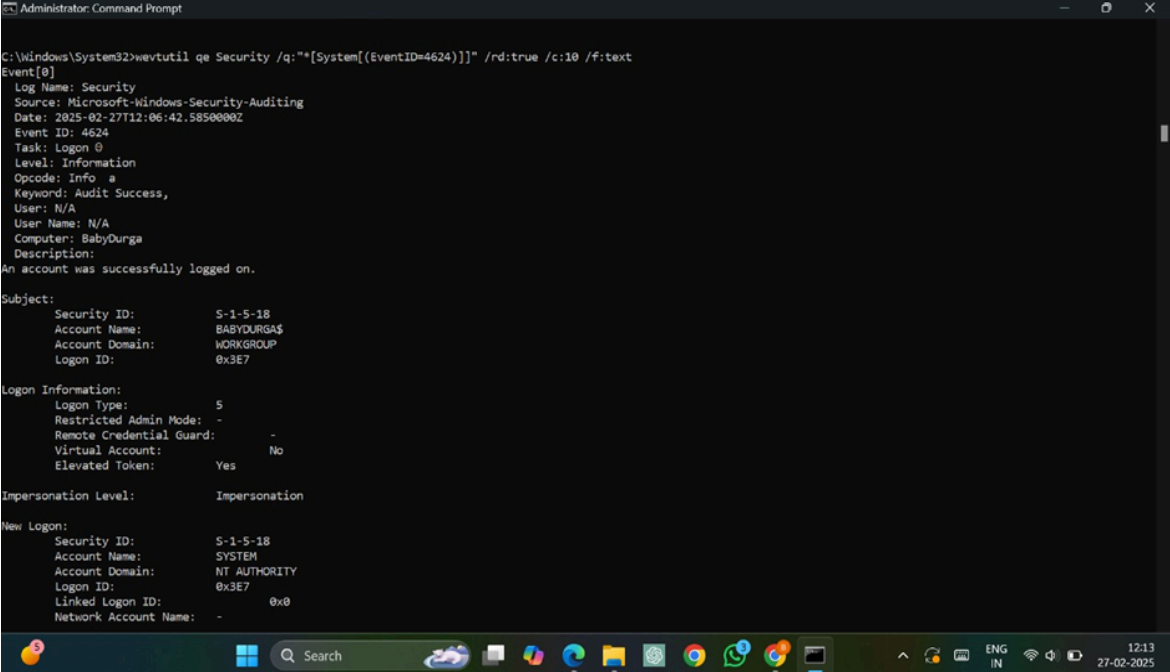
Aim: To extract the recent login and logout

SOFTWARE USED: CMD prompt.

Procedure:

5. Open Command prompt as administrator
6. Run below command to see to recent logins

```
wevtutil qe Security /q:"*[System[(EventID=4624)]]"  
/rd:true /c:10 /f:text
```



The screenshot shows a Windows Command Prompt window titled "Administrator: Command Prompt". The command entered is `C:\Windows\System32>wevtutil qe Security /q:"*[System[(EventID=4624)]]" /rd:true /c:10 /f:text`. The output displays details for a successful login event (Event ID 4624). The event occurred on 2025-02-27 at 12:06:42.5850000Z. The task is "Logon 0", level is "Information", and the keyword is "Audit Success". The user is "N/A". The description states "An account was successfully logged on." The subject information includes Security ID S-1-5-18, Account Name BABYDURGAS, Account Domain WORKGROUP, and Logon ID 0x3E7. Logon information shows Logon Type 5, Restricted Admin Mode -, Remote Credential Guard -, Virtual Account No, and Elevated Token Yes. Impersonation Level is Impersonation. The new logon information includes Security ID S-1-5-18, Account Name SYSTEM, Account Domain NT AUTHORITY, Logon ID 0x3E7, Linked Logon ID 0x0, and Network Account Name -.

7. Run below command to see to recent logout

```
wevtutil qe Security /q:"*[System[(EventID=4634)]]"  
/rd:true /c:10 /f:text
```

```
Administrator: Command Prompt

C:\Windows\System32>wevtutil qe Security /q:"*[System[(EventID=4634)]]" /rd:true /c:10 /f:text
Event[0]
Log Name: Security
Source: Microsoft-Windows-Security-Auditing
Date: 2025-02-27T11:41:57.2700000Z
Event ID: 4634
Task: Logoff
Level: Information
Opcode: Info a
Keyword: Audit Success,
User: N/A
User Name: N/A
Computer: BabyDurga
Description:
An account was logged off.

Subject:
    Security ID:      S-1-5-21-3663434870-255603561-2426578820-1002
    Account Name:     Baby durga
    Account Domain:   BABYDURGA
    Logon ID:         0x9130188

Logon Type:          2

This event is generated when a logon session is destroyed. It may be positively correlated with a logon event using the Logon ID value. Logon IDs are only unique between re
boots on the same computer.

Event[1]
Log Name: Security
Source: Microsoft-Windows-Security-Auditing
Date: 2025-02-27T11:41:57.2690000Z
Event ID: 4634
Task: Logoff
Level: Information
Opcode: Info a
Keyword: Audit Success,
User: N/A
User Name: N/A
```

8. Now the last 10 logins and logouts can be found.

Result:

Hence, recent 10 login and logout can be extracted successfully .