

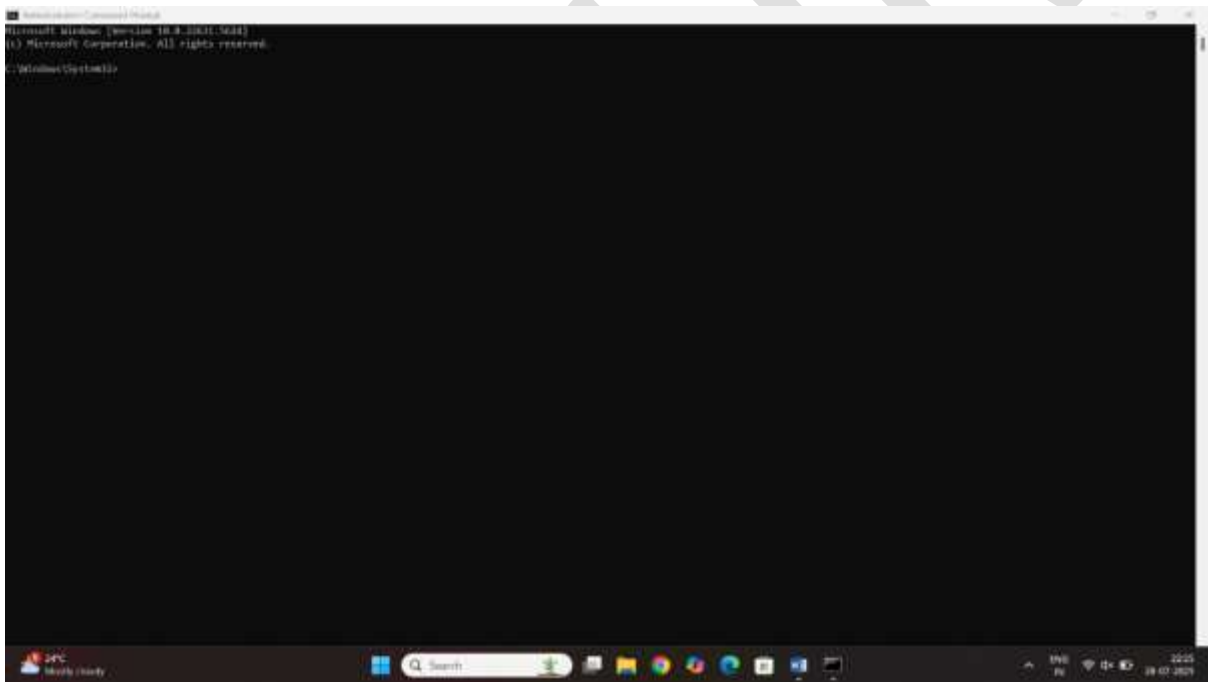
## Module 6 windows forensics

### Lab 1 Acquire volatile information windows machine

#### There was tool called PS tool

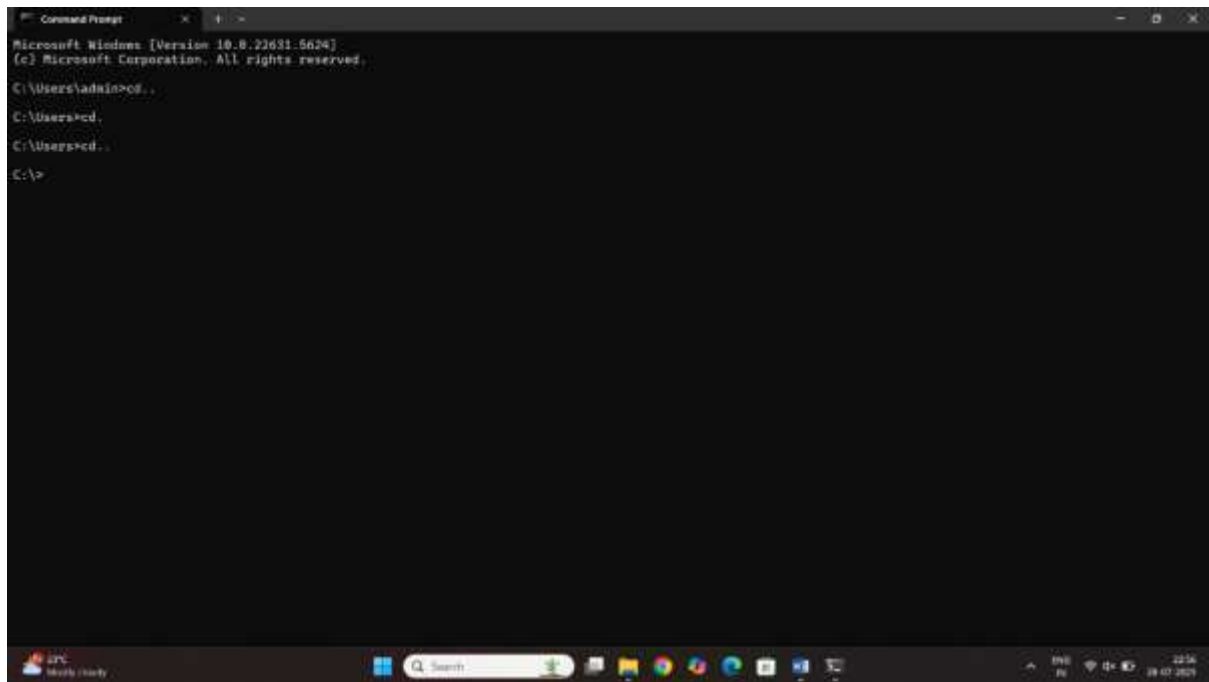
Step1 download the ps tool

Step2 open the ps cmd run as administrative

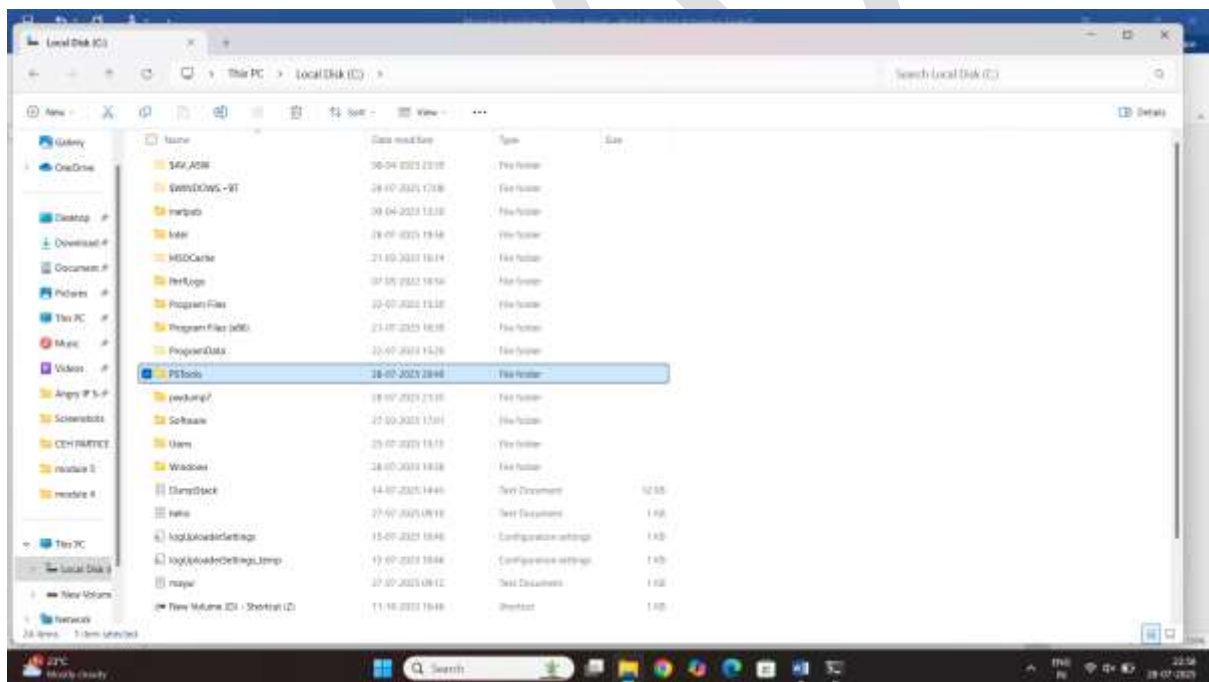


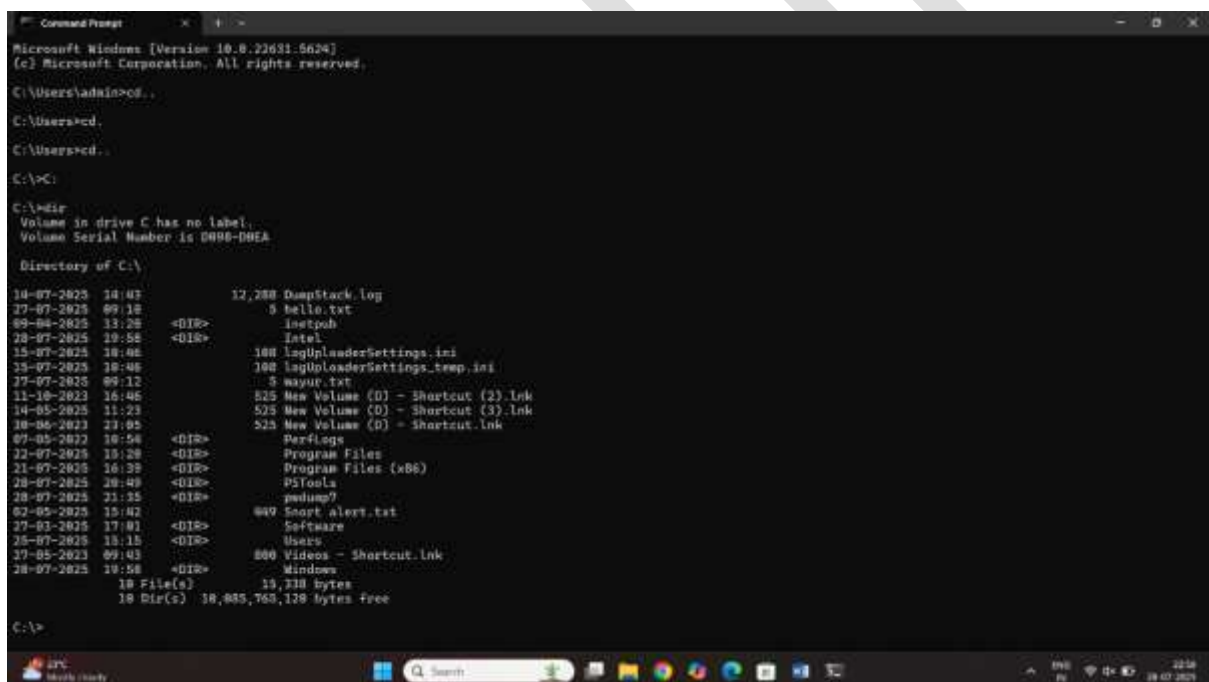
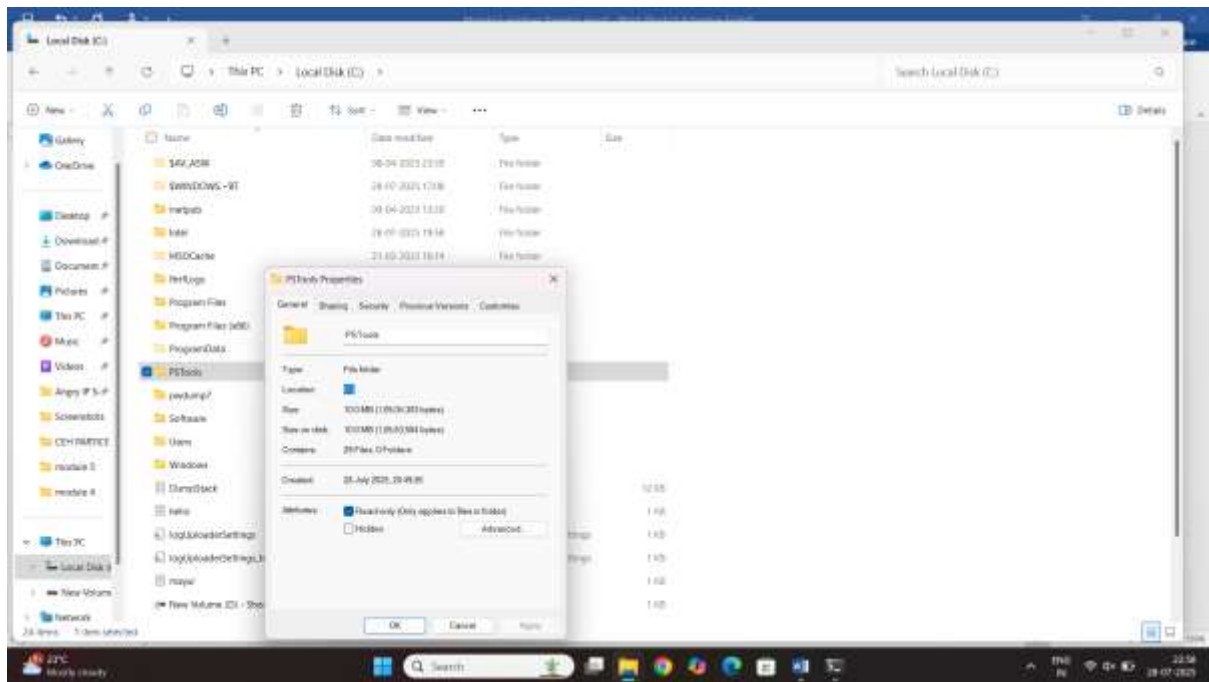
Step3 go to c drive

Command: cd..



Step4 go to ps tool path open them cmd





Step5 go to ps tool directory

Command: cd pstool

```

C:\PSTools>dir
Volume in drive C has no label.
Volume Serial Number is 0080-D8EA

Directory of C:\PSTools

28-07-2025  19:13  <DIR>
                7,498 PsExec.txt
                732,176 PsExec64.exe
                833,472 PsExec64.exe
                230,688 psfile.exe
                249,168 psfile64.exe
                413,632 PsGetsid.exe
                506,304 PsGetsid64.exe
                443,328 PsInfo.exe
                535,984 PsInfo64.exe
                398,552 pskill.exe
                476,592 pskill64.exe
                217,520 pslist.exe
                267,136 pslist64.exe
                151,728 PsLoggedon.exe
                179,168 PsLoggedon64.exe
                312,768 psloglist.exe
                378,776 psloglist64.exe
                222,152 pspasswd.exe
                279,768 pspasswd64.exe
                287,168 psping.exe
                347,824 psping64.exe
                268,168 PsService.exe
                322,400 PsService64.exe
                491,680 pshutdow.exe
                599,920 pshutdow64.exe
                393,160 psuspend.exe
                489,136 psuspend64.exe
                66,582 Pstools.chm
                39 psversion.txt
29 File(s)      10,504,303 bytes
1 Dir(s)        10,130,409,688 bytes free

C:\PSTools>

```

Step6 type the command psLoggedon.exe

```

28-07-2025  17:13  230,688 psfile.exe
28-07-2025  17:13  249,168 psfile64.exe
28-07-2025  17:13  413,632 PsGetsid.exe
28-07-2025  17:13  506,304 PsGetsid64.exe
28-07-2025  17:13  443,328 PsInfo.exe
28-07-2025  17:13  535,984 PsInfo64.exe
28-07-2025  17:13  398,552 pskill.exe
28-07-2025  17:13  476,592 pskill64.exe
28-07-2025  17:13  217,520 pslist.exe
28-07-2025  17:13  267,136 pslist64.exe
28-07-2025  17:13  151,728 PsLoggedon.exe
28-07-2025  17:13  179,168 PsLoggedon64.exe
28-07-2025  17:13  312,768 psloglist.exe
28-07-2025  17:13  378,776 psloglist64.exe
28-07-2025  17:13  222,152 pspasswd.exe
28-07-2025  17:13  279,768 pspasswd64.exe
28-07-2025  17:13  287,168 psping.exe
28-07-2025  17:13  347,824 psping64.exe
28-07-2025  17:13  268,168 PsService.exe
28-07-2025  17:13  322,400 PsService64.exe
28-07-2025  17:13  491,680 pshutdow.exe
28-07-2025  17:13  599,920 pshutdow64.exe
28-07-2025  17:13  393,160 psuspend.exe
28-07-2025  17:13  489,136 psuspend64.exe
28-07-2025  17:13  66,582 Pstools.chm
28-07-2025  17:13  39 psversion.txt
29 File(s)      10,504,303 bytes
1 Dir(s)        10,130,409,688 bytes free

C:\PSTools>PsLoggedon.exe

PsLoggedon v1.25 - See who's logged on
Copyright (C) 2000-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

Users logged on locally:
                28-07-2025 19:58:12      DESKTOP-857F81M\admin

No one is logged on via resource shares.

C:\PSTools>

```

## Step7 command psloglist.exe

```

C:\>dir
20-07-2025 17:13 398,552 pskill.exe
20-07-2025 17:13 470,592 pskill64.exe
20-07-2025 17:13 257,520 pslist.exe
20-07-2025 17:13 267,136 pslist64.exe
20-07-2025 17:13 151,728 PsLoggedon.exe
20-07-2025 17:13 170,168 PsLoggedon64.exe
20-07-2025 17:13 312,168 psloglist.exe
20-07-2025 17:13 370,776 psloglist64.exe
20-07-2025 17:13 222,182 pspasswd.exe
20-07-2025 17:13 278,768 pspasswd64.exe
20-07-2025 17:13 287,168 psping.exe
20-07-2025 17:13 347,824 psping64.exe
20-07-2025 17:13 268,168 PsService.exe
20-07-2025 17:13 322,608 PsService64.exe
20-07-2025 17:13 691,888 psshutdown.exe
20-07-2025 17:13 889,928 psshutdown64.exe
20-07-2025 17:13 393,168 psxsuspend.exe
20-07-2025 17:13 838,136 psxsuspend64.exe
20-07-2025 17:13 66,382 PsTools.chm
20-07-2025 17:13 39 psversion.txt
20 File(s) 18,504,501 bytes
1 Dir(s) 10,130,409,888 bytes free

C:\PSTools>PsLoggedon.exe

PsLoggedon v1.35 - See who's logged on
Copyright (C) 2008-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

Users logged on locally:
20-07-2025 19:58:32 DESKTOP-B57F83M\admin

No one is logged on via resource shares.

C:\PSTools>pslist.exe

Pslist v1.41 - Process information lister
Copyright (C) 2008-2023 Mark Russinovich
Sysinternals - www.sysinternals.com
  
```

The screenshot shows a Windows command prompt window with the Sysinternals suite of tools. The user has listed the files in the current directory, then executed `PsLoggedon.exe` and `pslist.exe`. A "Sysinternals License Agreement" dialog box is open, displaying the terms of use for the software. The dialog box has a "Yes" button and a "No" button.

## Result:

```

Pid  PId  PPId  Name              Arch  SessionId  StartTime
----  -
smss  1960  13    22 1365 176868      0:02:44.383 3:03:07.440
svchost 1976  8     6 192 2036      0:00:00.062 3:03:07.444
svchost 2008  8    11 271 3856      0:00:01.546 3:03:07.436
MUDFHost 1336 13   10 482 7432      0:00:02.250 3:03:07.422
svchost 2104  8     4 179 1568      0:00:00.312 3:03:07.487
svchost 2188  8     3 156 1448      0:00:00.078 3:03:07.392
svchost 2324  8     2 195 1924      0:00:00.218 3:03:07.346
svchost 2332  8     2 252 3216      0:00:06.796 3:03:07.346
svchost 2556  8     6 423 6568      0:00:05.375 3:03:07.305
svchost 2572  8    18 354 4864      0:00:13.189 3:03:07.381
lgfscUIService 2584  8     2 195 2132      0:00:00.109 3:03:07.296
svchost 2608  8     3 193 1968      0:00:01.811 3:03:07.286
svchost 2692  8     2 219 1908      0:00:00.312 3:03:07.267
svchost 2772  8     2 199 2332      0:00:00.078 3:03:07.241
svchost 3816  8     5 235 2388      0:00:01.578 3:03:07.171
MUDFHost 3848  8     5 215 1436      0:00:00.815 3:03:07.168
svchost 3568  8     1 127 1324      0:00:00.078 3:03:07.086
scashUpgradeService 3884  8     2 238 16516      0:00:00.171 3:03:07.078
svchost 3248  8     9 643 32596      0:01:17.758 3:03:07.068
Helperservice 3328  8     1 288 1752      0:00:00.000 3:03:06.996
svchost 3352  8     3 238 3864      0:00:16.609 3:03:06.979
svchost 3368  8     3 267 1332      0:00:00.078 3:03:06.979
esc_proxy 3368  8     4 324 4064      0:00:00.125 3:03:06.978
conhost 3416  6     4 162 5776      0:00:00.189 3:03:06.959
Memory Compression 3464  8    46 8 2292      0:00:26.258 3:03:06.944
svchost 3672  8    13 474 18576      0:00:20.375 3:03:06.846
svchost 3724  8     2 215 2068      0:00:00.781 3:03:06.826
svchost 3732  8     8 190 1956      0:00:00.781 3:03:06.825
svchost 3808  8     4 298 9928      0:00:09.187 3:03:06.731
svchost 3928  8     8 482 3288      0:00:01.283 3:03:06.257
svchost 4024  8     3 172 1748      0:00:00.046 3:03:06.156
svchost 4084  8     6 381 2904      0:00:00.375 3:03:06.131
svchost 3536  8    13 534 6824      0:00:01.718 3:03:06.084
svchost 4124  8     4 249 2636      0:00:00.187 3:03:06.843
svchost 4148  8     7 239 3112      0:00:00.187 3:03:06.837
AvastSvc 4248  8   163 5574 131488      0:00:55.609 3:03:05.939
planext 4652  8     2 135 1388      0:00:00.093 3:03:05.822
conhost 4668  8     2 119 5388      0:00:00.000 3:03:05.815
svchost 4588  8     1 227 2748      0:00:00.234 3:03:05.738
svchost 4680  8    21 568 14768      0:03:35.815 3:03:05.723
asatoolsSvc 4712  8    38 1551 46168      0:00:12.781 3:03:05.598
  
```

The screenshot shows the output of the `pslist.exe` command. It displays a list of running processes with their PIDs, PPIDs, names, architectures, session IDs, and start times. The list includes various system services and user applications, such as `smss`, `svchost`, `MUDFHost`, `lgfscUIService`, `esc_proxy`, `conhost`, `Memory Compression`, `AvastSvc`, `planext`, `conhost`, and `asatoolsSvc`.

```

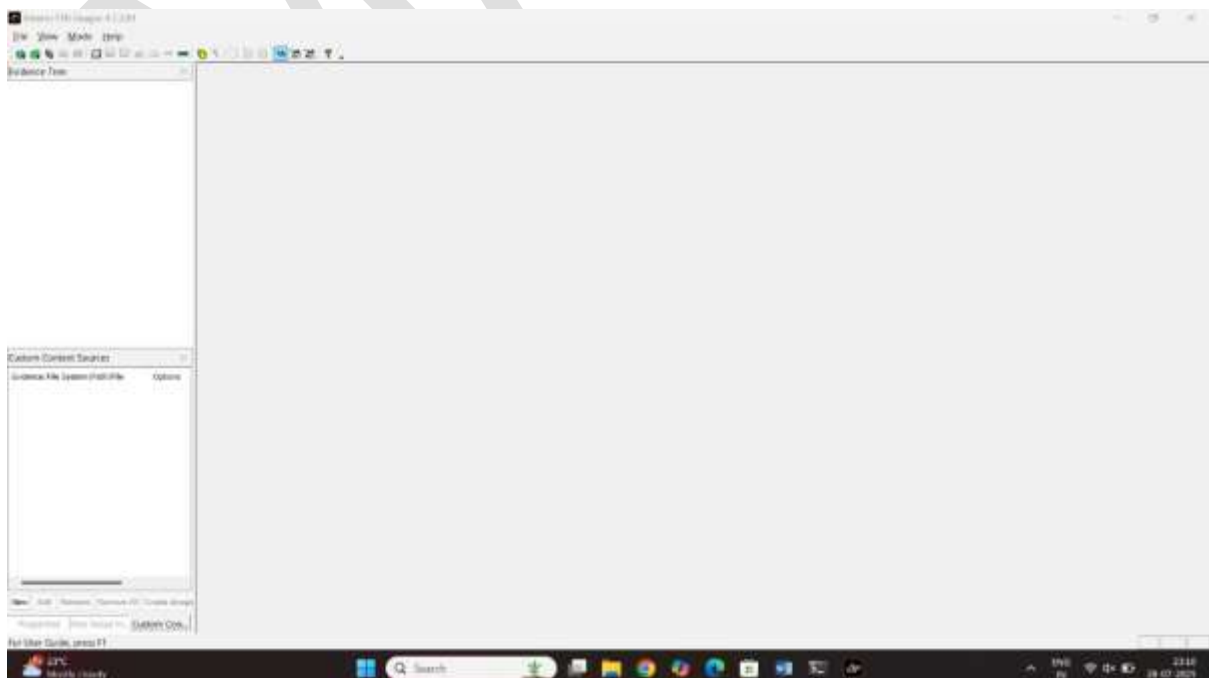
C:\PSTools>
msedge.exe 11040 8 7 157 2288 0:00:00.046 2:57:36.420
msedge.exe 5088 8 19 461 34076 0:00:00.593 2:57:35.700
msedge.exe 2288 8 18 711 11792 0:00:00.511 2:57:35.700
msedge.exe 14300 8 8 372 8952 0:00:00.156 2:57:35.112
msedge.exe 17012 4 18 326 46472 0:00:01.189 2:57:35.106
ApplicationFrameHost 14216 8 1 283 6516 0:00:00.562 2:55:45.888
AvastUI 25112 8 17 635 16168 0:00:00.125 1:54:07.800
svchost 16836 8 19 301 3708 0:00:01.373 1:48:17.821
FileCoAuth 25948 8 2 219 9828 0:00:00.148 1:26:29.174
svchost 24996 8 2 149 1548 0:00:00.831 1:24:83.488
taskhostw 26464 8 4 190 6988 0:00:00.570 1:12:52.200
dllhost 22968 8 3 236 2492 0:00:00.040 0:35:56.241
svchost 8088 8 1 150 1668 0:00:00.013 0:30:22.642
ssdisagent 19680 8 36 1044 66752 0:00:13.078 0:30:40.458
msedge 12416 8 49 1190 43988 0:00:02.687 0:49:34.476
msedge 26452 8 7 162 2572 0:00:00.046 0:49:34.887
msedge 26064 10 13 348 20112 0:00:00.263 0:40:13.914
msedge 10004 8 27 355 12864 0:00:00.373 0:40:13.912
msedge 28968 8 10 187 8828 0:00:00.148 0:40:13.261
svchost 6616 8 4 178 3988 0:00:00.078 0:40:01.988
WhatsApp 2800 8 38 640 39840 0:00:00.656 0:36:17.446
RuntimeBroker 3092 8 9 118 3804 0:00:00.156 0:36:16.100
svchost 15168 8 3 275 1928 0:00:00.031 0:30:32.231
LockApp 20088 8 16 602 16368 0:00:01.234 0:33:16.361
svchost 14832 8 9 821 9728 0:00:00.937 0:33:13.347
svchost 26588 8 2 204 2564 0:00:00.343 0:33:13.828
RuntimeBroker 8088 8 13 551 10252 0:00:01.021 0:33:12.119
dllhost 10724 8 2 135 1672 0:00:00.062 0:33:10.151
svchost 18788 8 11 377 4364 0:00:00.562 0:33:05.705
splunk-optimize 18516 8 1 4 452 0:00:00.880 0:31:49.898
MINMOND 19676 8 11 1429 131124 0:00:19.359 0:05:46.266
cmd 9580 8 4 92 5740 0:00:00.015 0:05:14.899
conhost 20892 8 4 146 1604 0:00:00.015 0:05:14.852
OpenConsole 16540 8 9 203 3124 0:00:00.031 0:05:14.736
WindowsTerminal 8728 8 14 678 26784 0:00:01.656 0:05:14.885
SearchProtocolHost 17908 8 6 374 2088 0:00:00.125 0:04:57.942
SearchFilterHost 24872 8 4 181 2116 0:00:00.015 0:04:57.666
svchost 12816 8 8 167 1824 0:00:00.031 0:02:58.588
polist 6316 13 6 383 4912 0:00:00.607 0:00:07.392

```

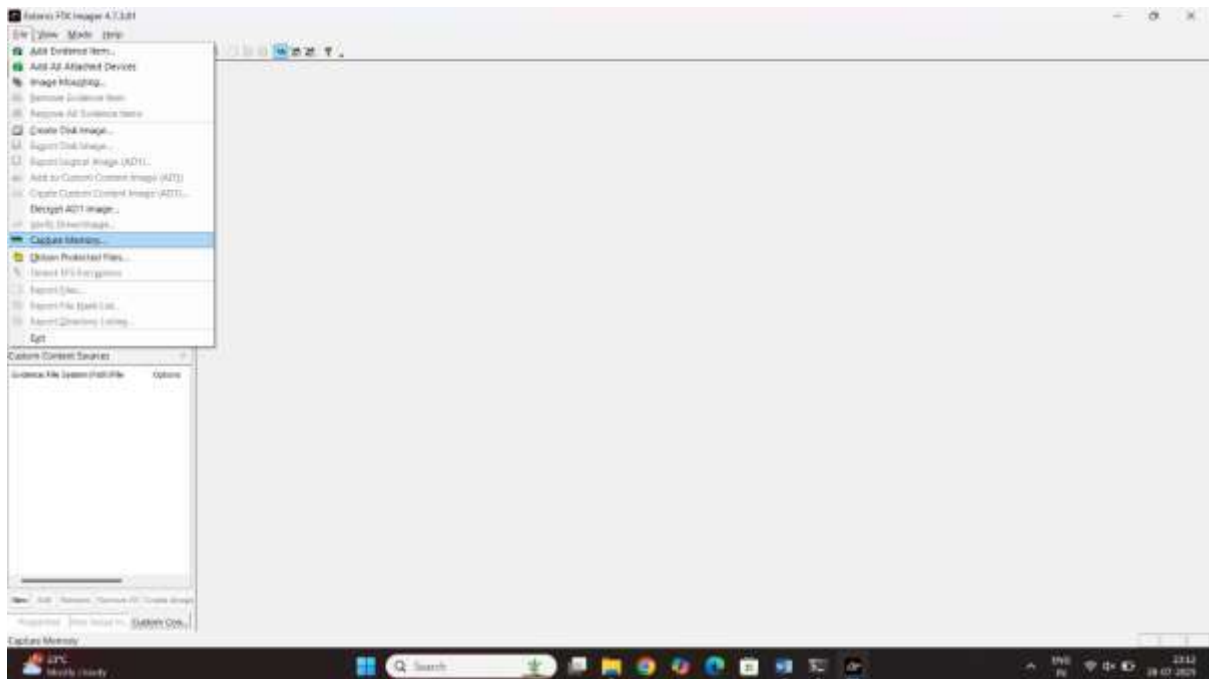
## Lab2 investigate forensic image of windows RAM capture

### Using ftk imager

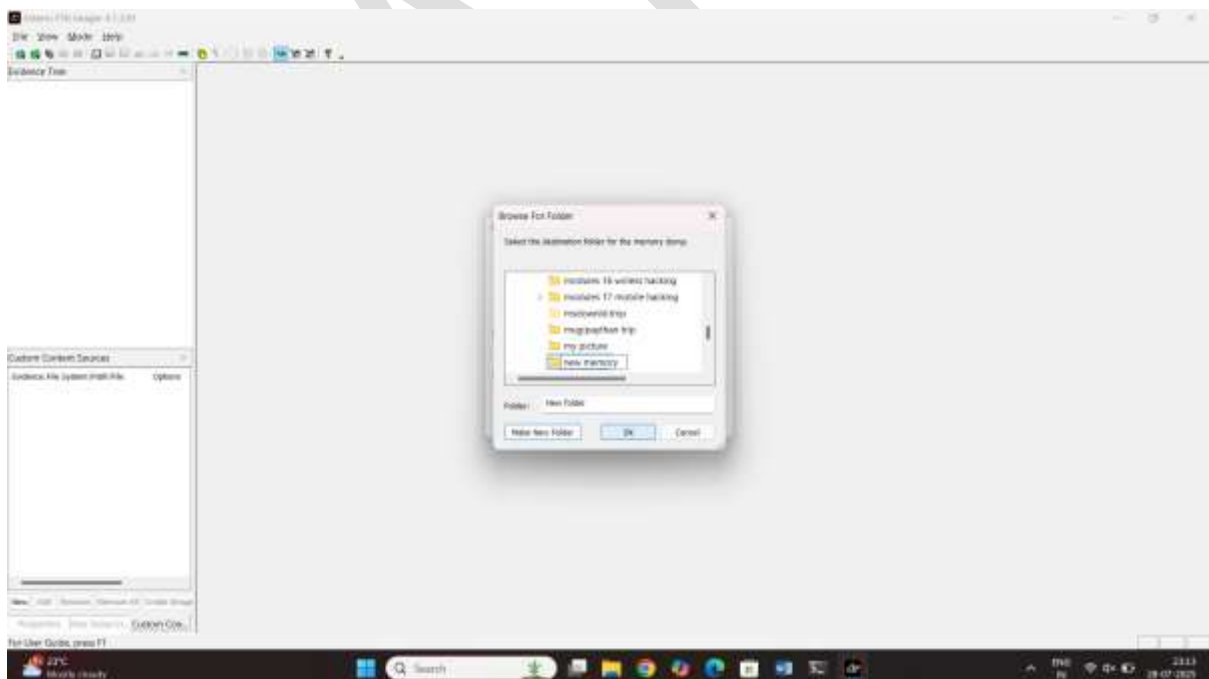
#### Step1 start the ftk imager



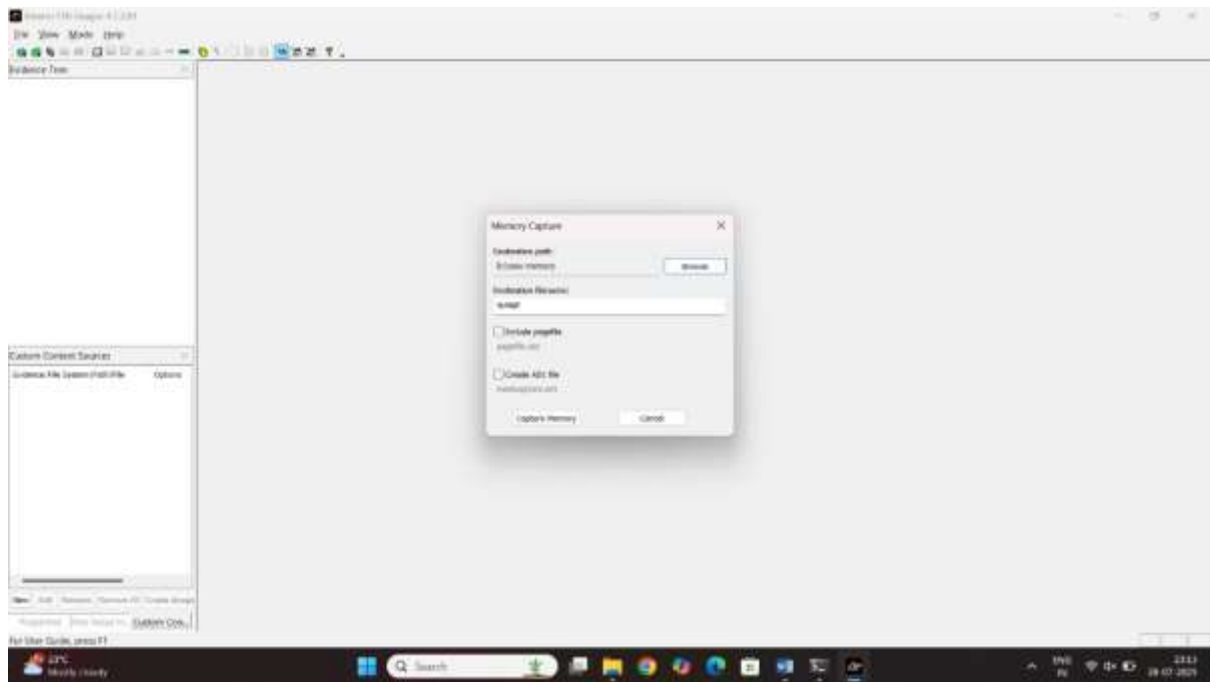
Step2 click on the file and select the option capture memory



Step3 select the destination folder and file name





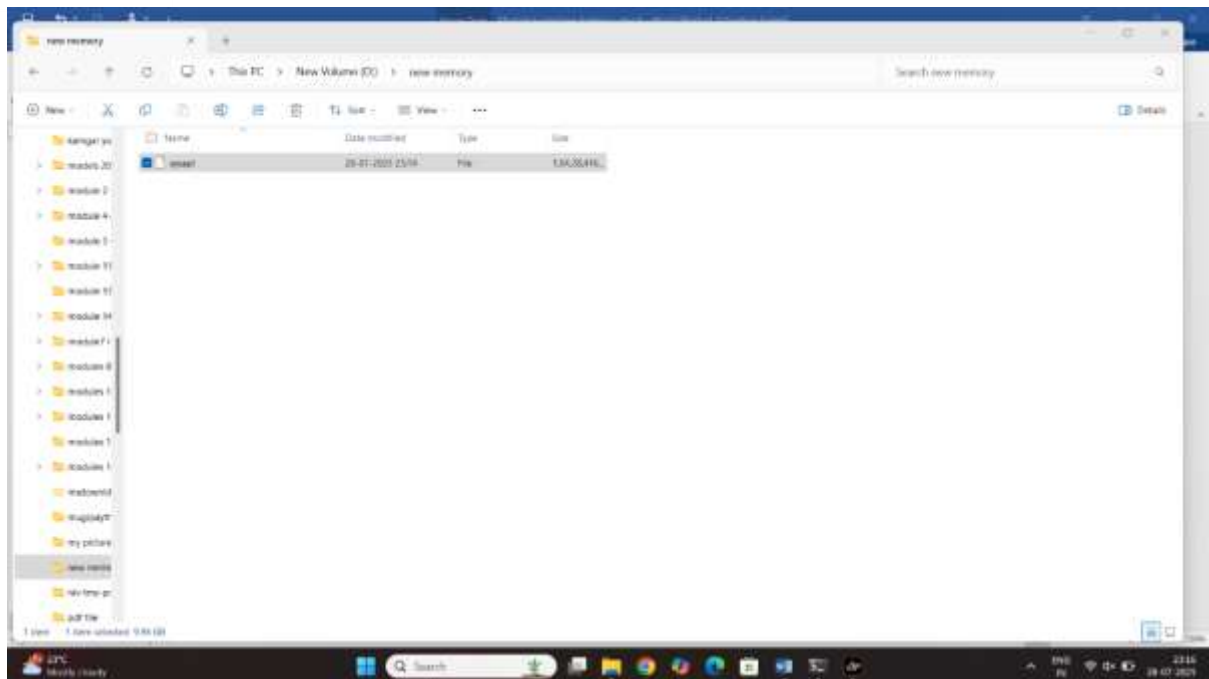


Step4 click on the capture memory





Result:

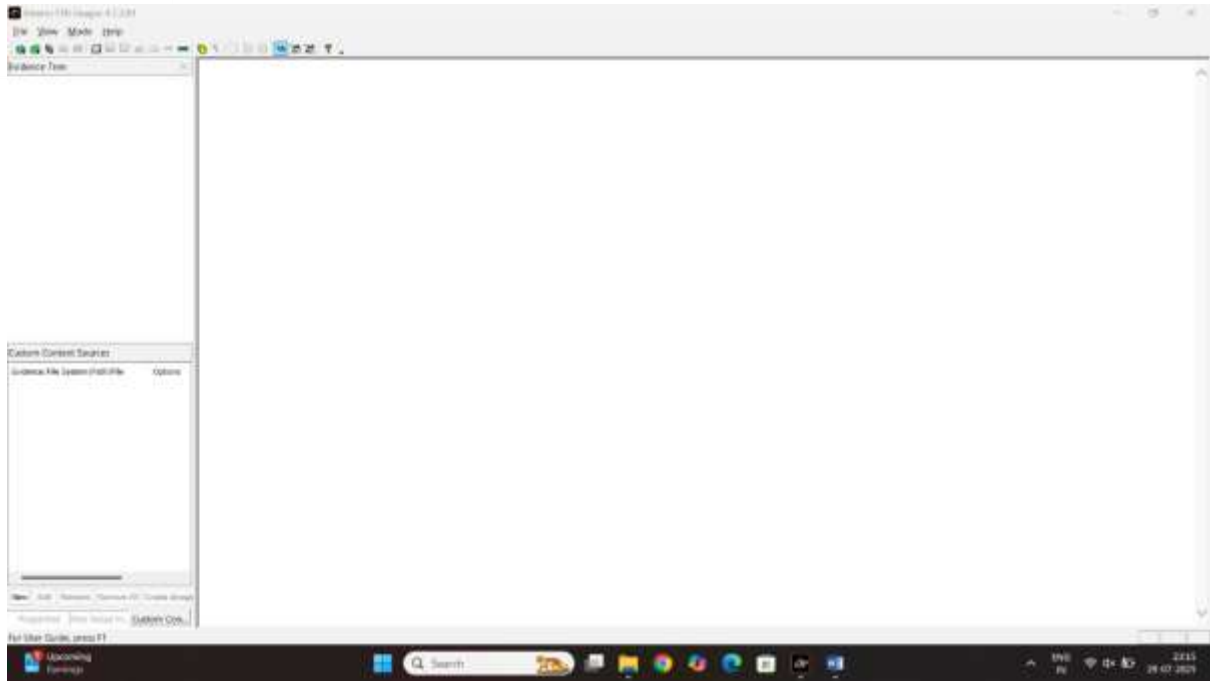


Lab 3 extract and

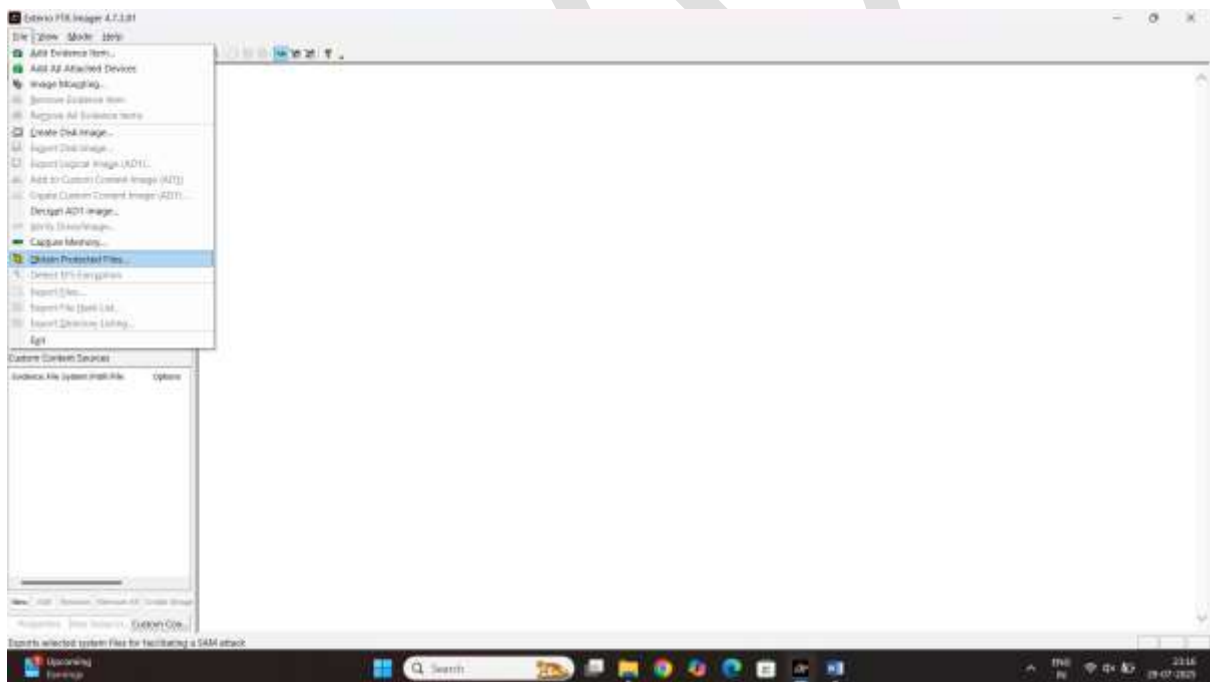
**Lab 4 capture and examine windows registry files  
on live system**

**Using FTK**

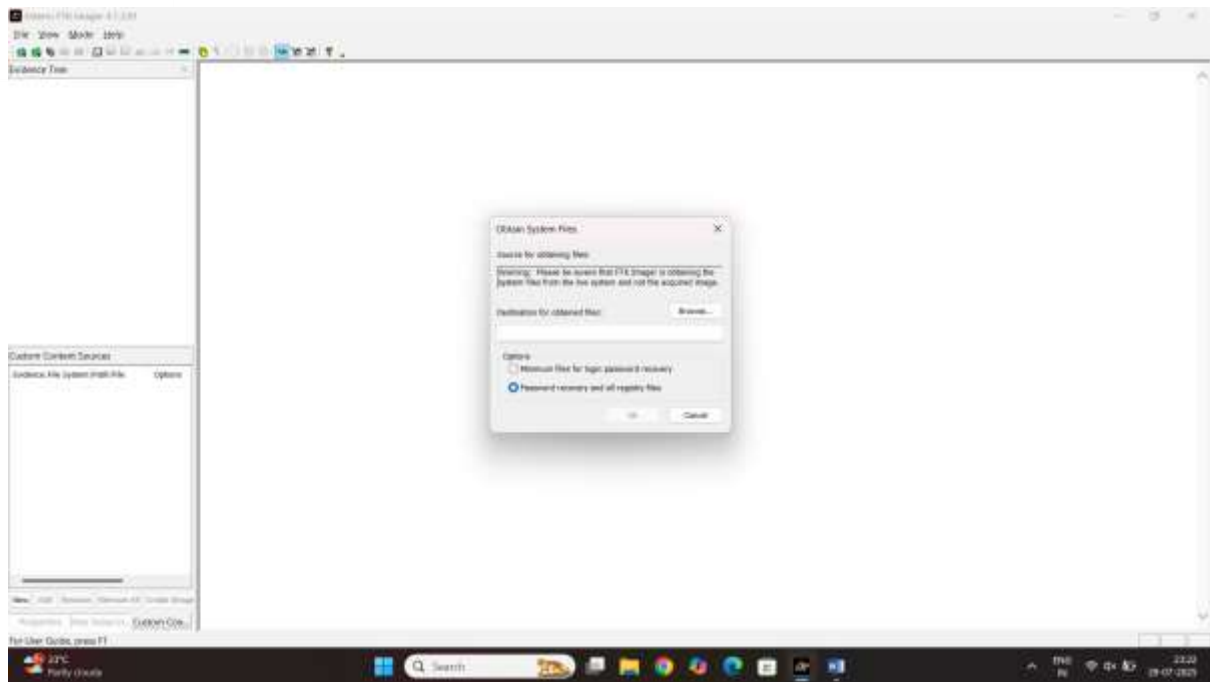
Step1 start the application



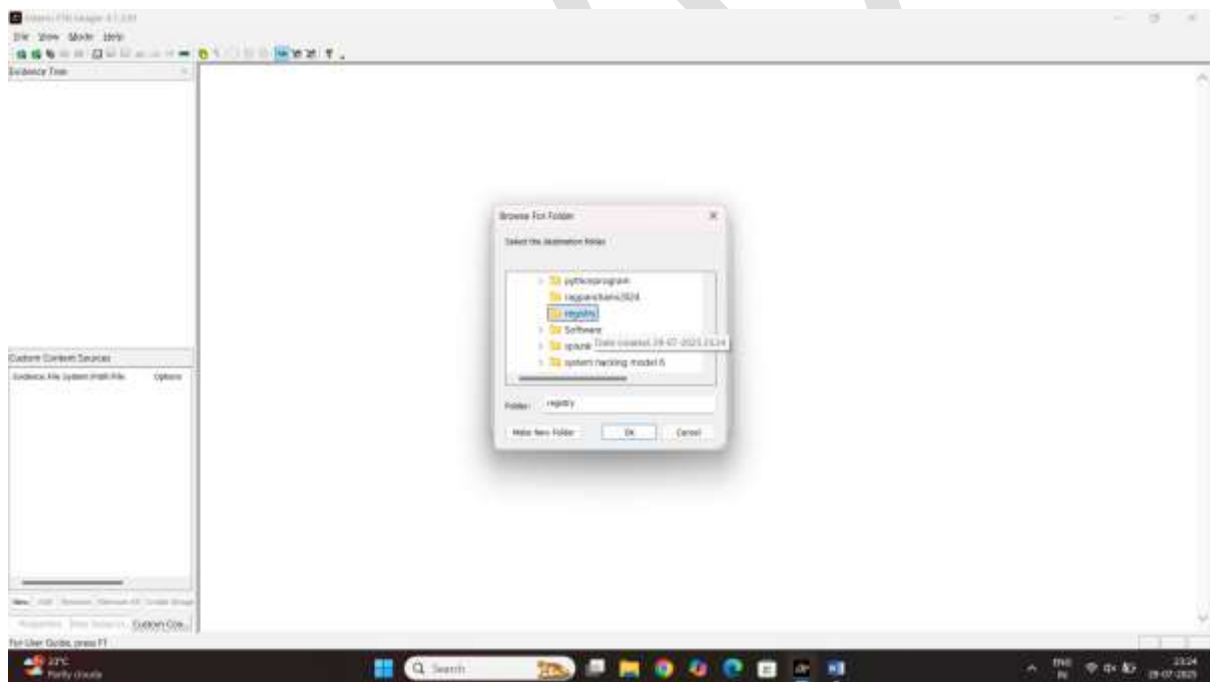
Step2 click on file and select the protected file

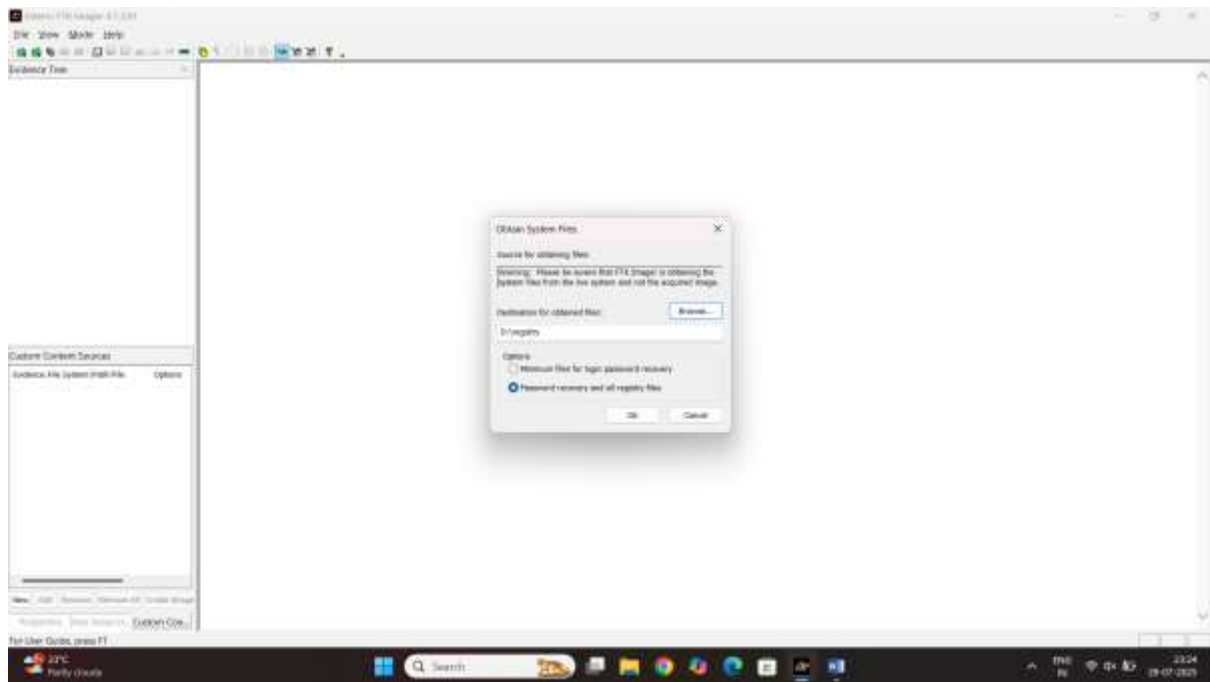


Step3 select the option password recovery and registry

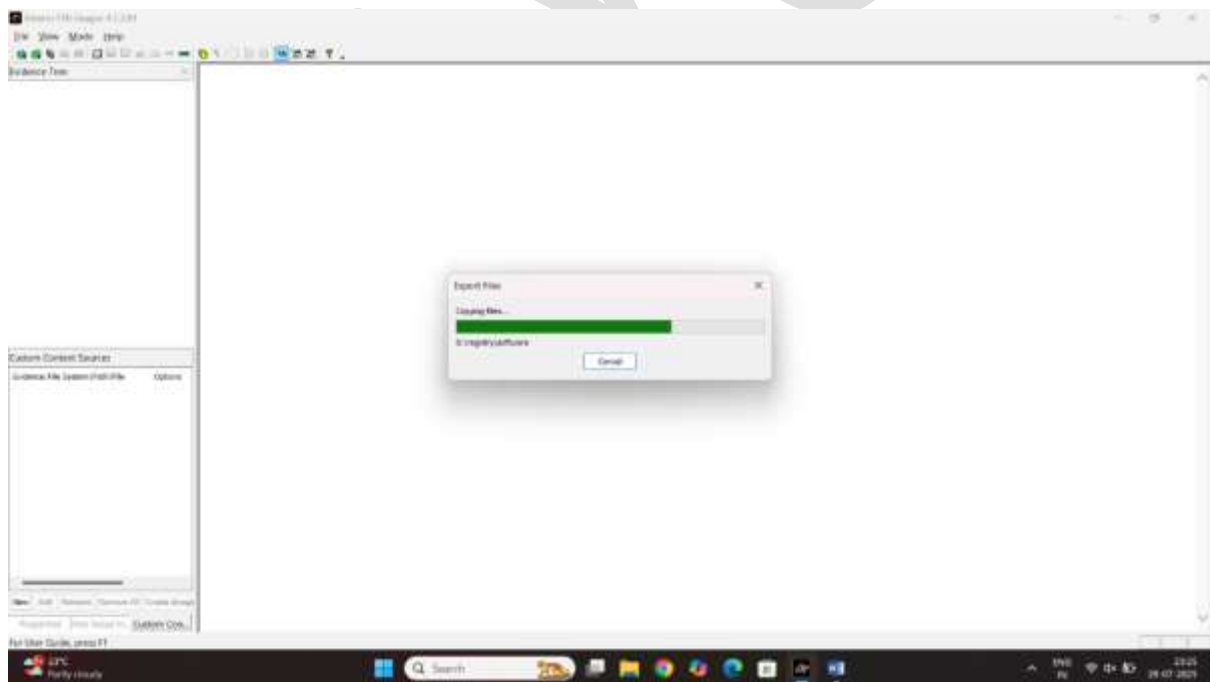


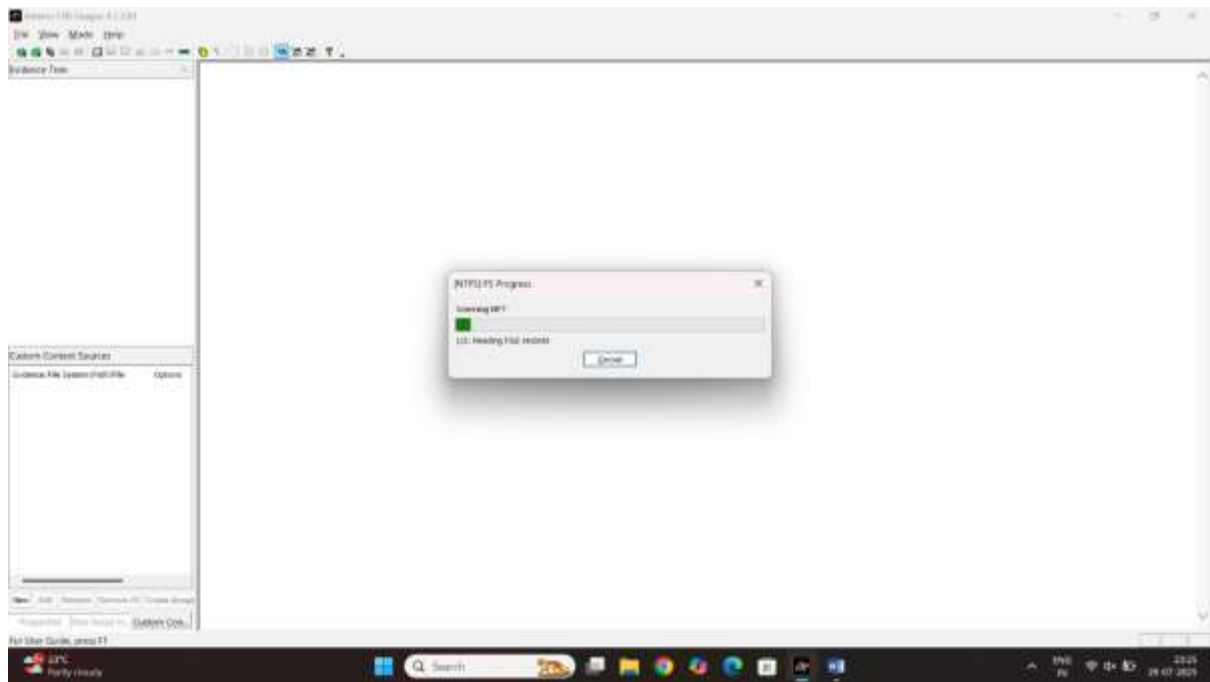
Step4 select the destination file path



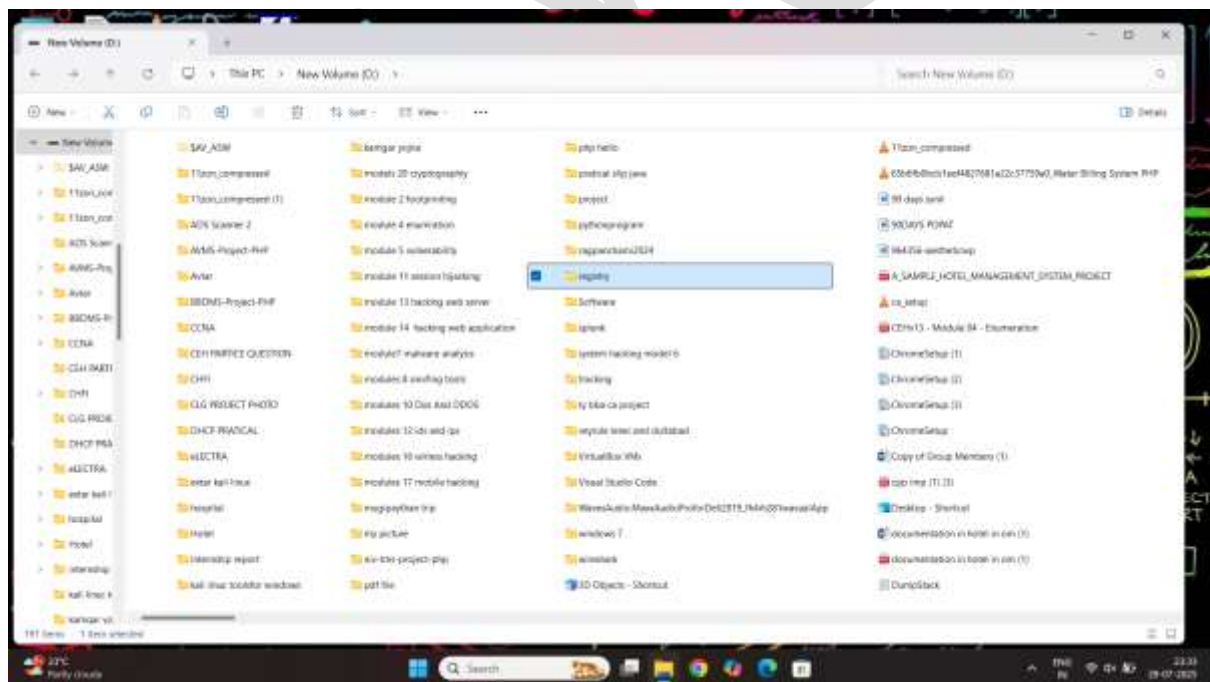


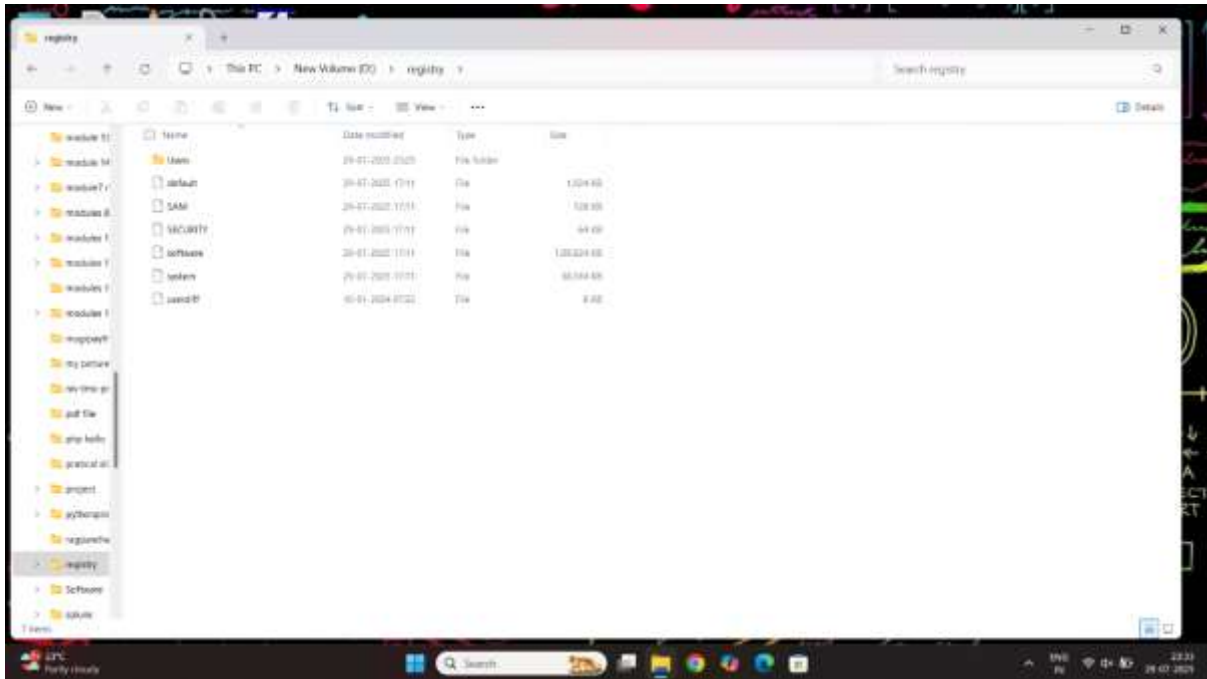
Click on the ok





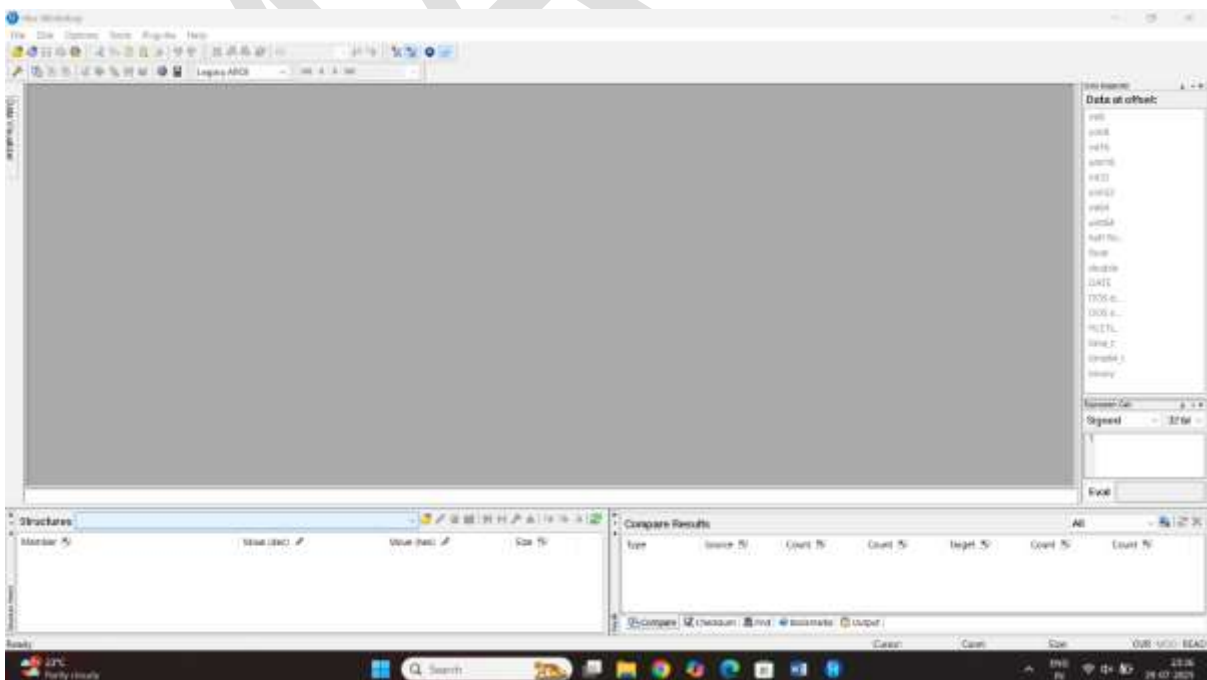
Step5 go to file registry





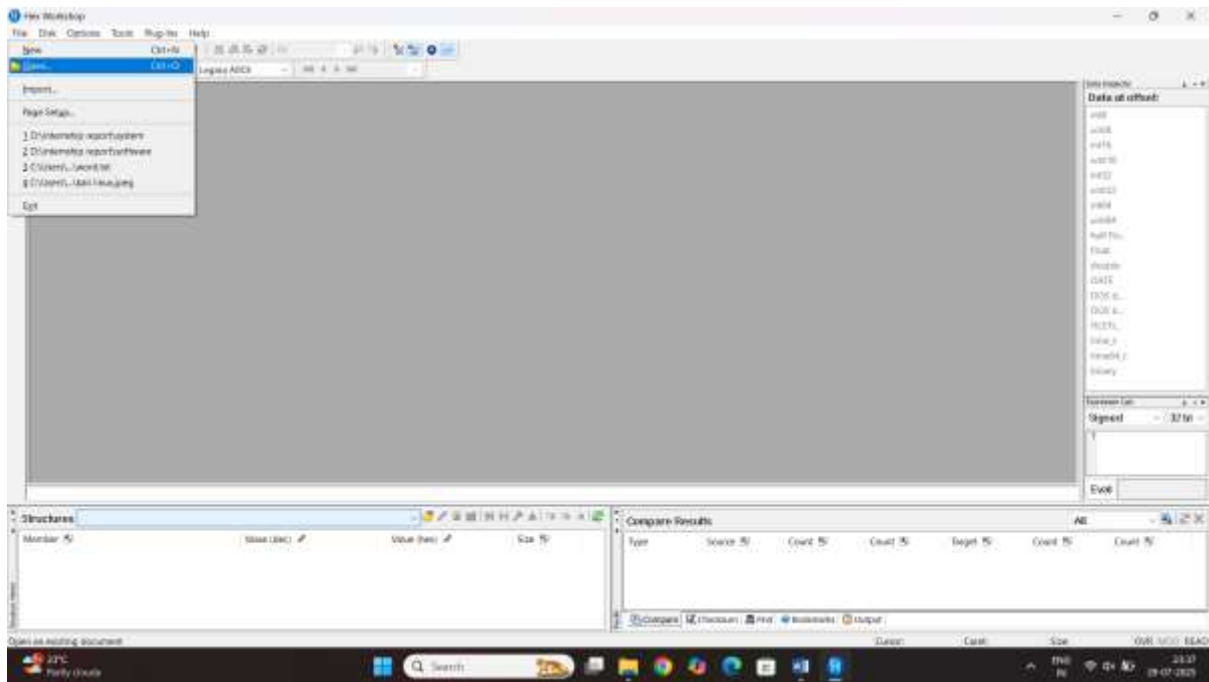
## Lab 5 How to check this registry file using hex work shop

Step1 start the application



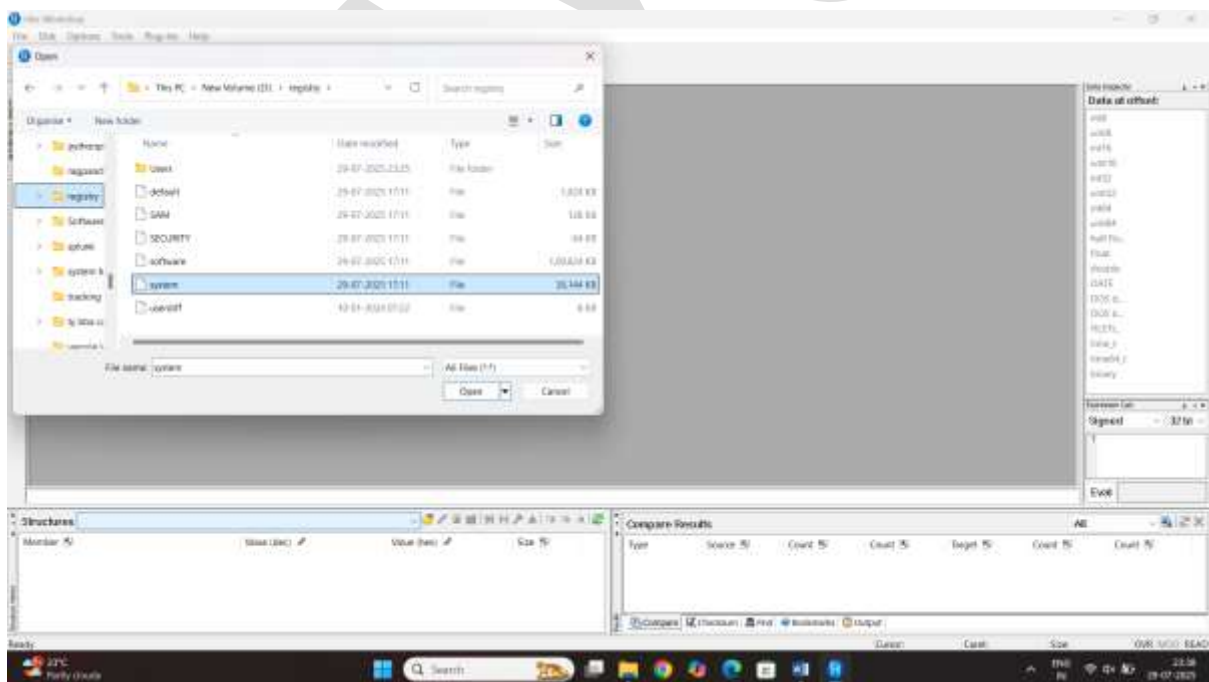
Step2 click on the open option





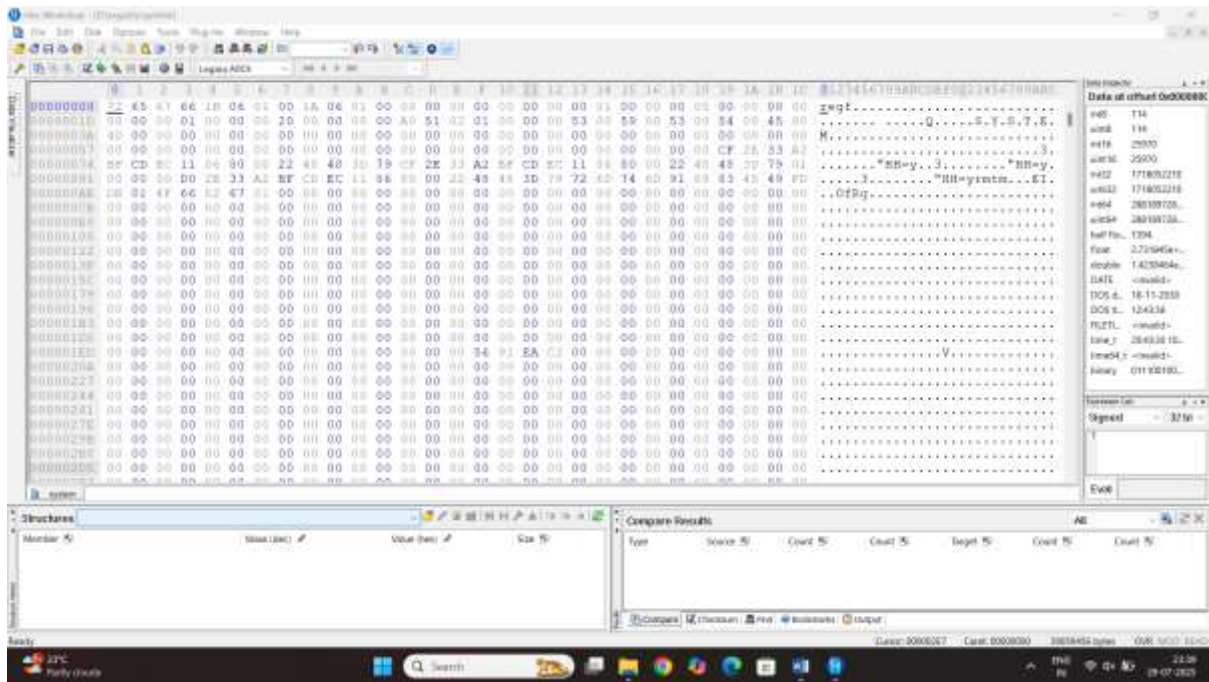
Step3 select the file registry option

Step4 select the registry file



Click on the open

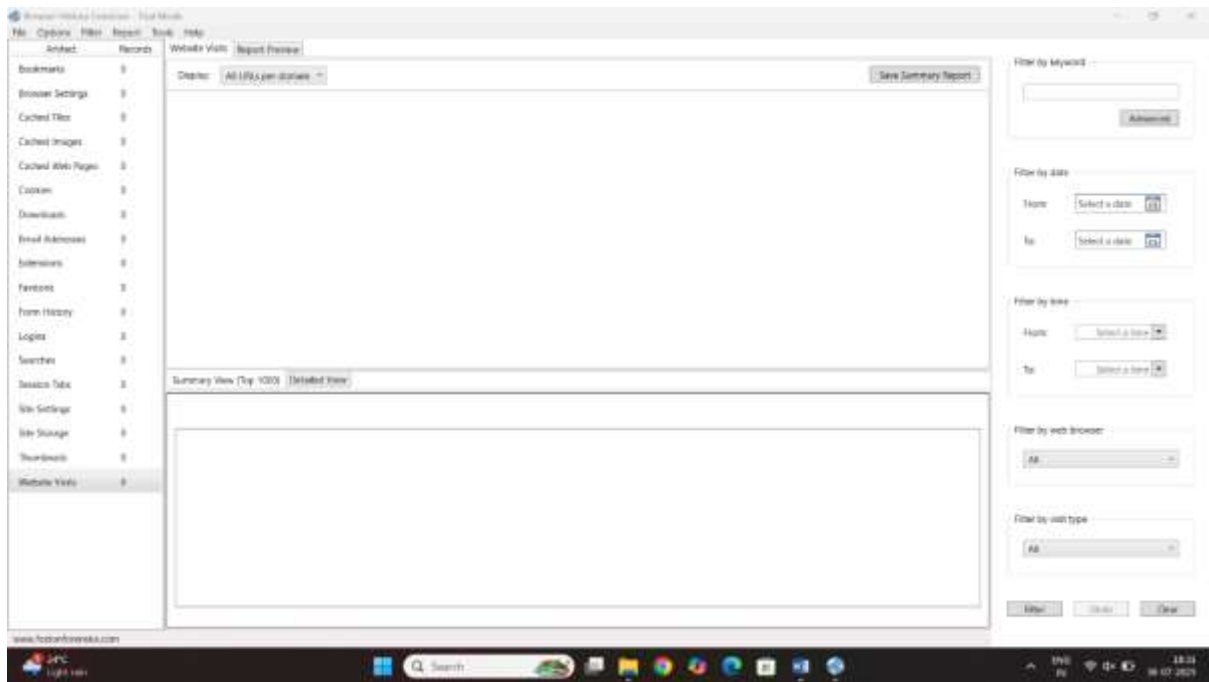
## Result:



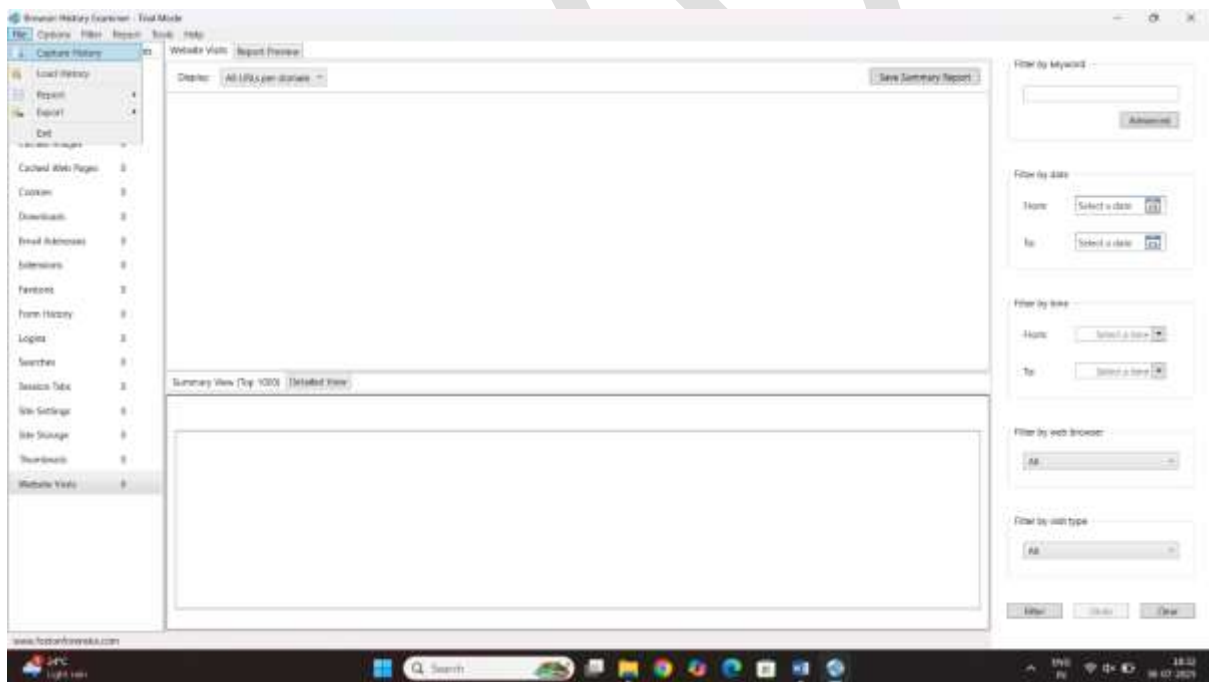
**Lab6 extract and rebuild cached web page of google chrome**

**There was tool called browser History**

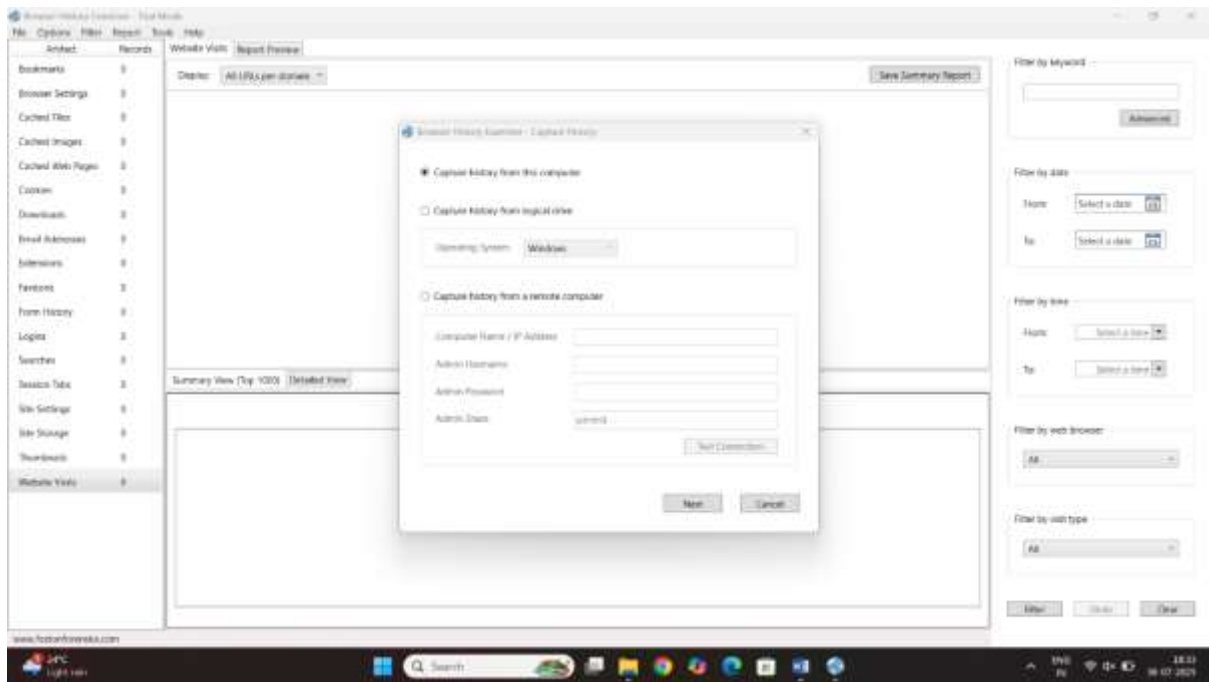
**Step1 start the application**



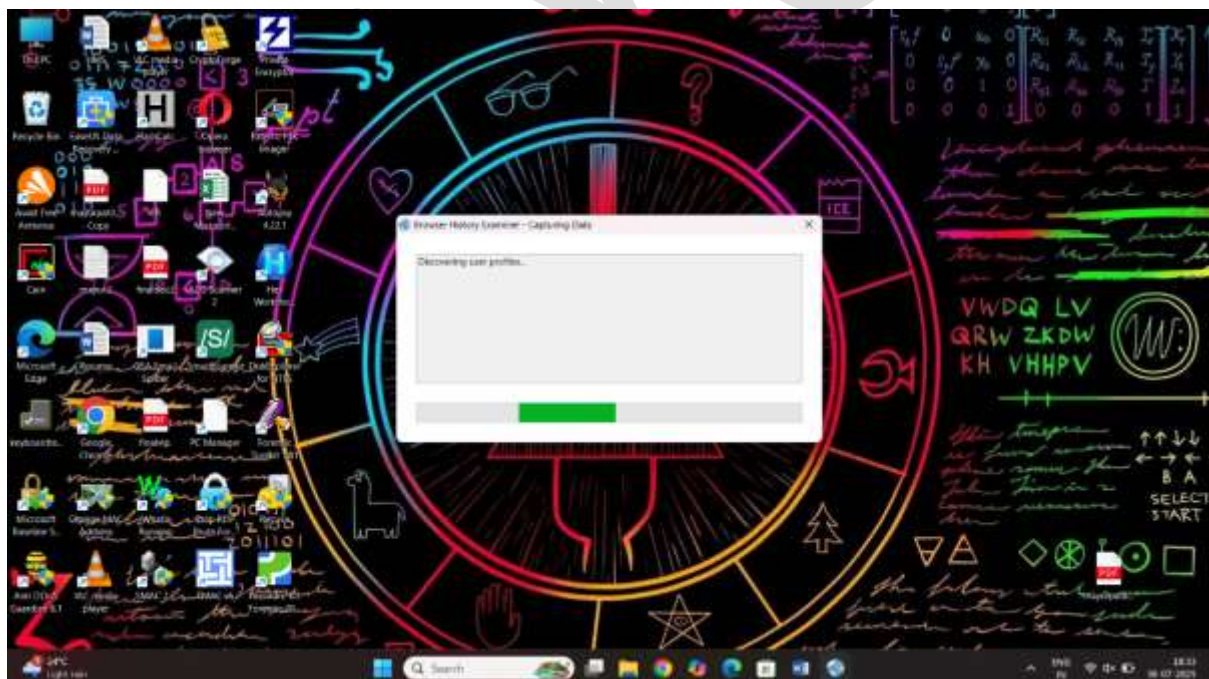
Step2 click on the capture history



Step3 click capture history from this computer



Click on the next  
Step4 start the DB process

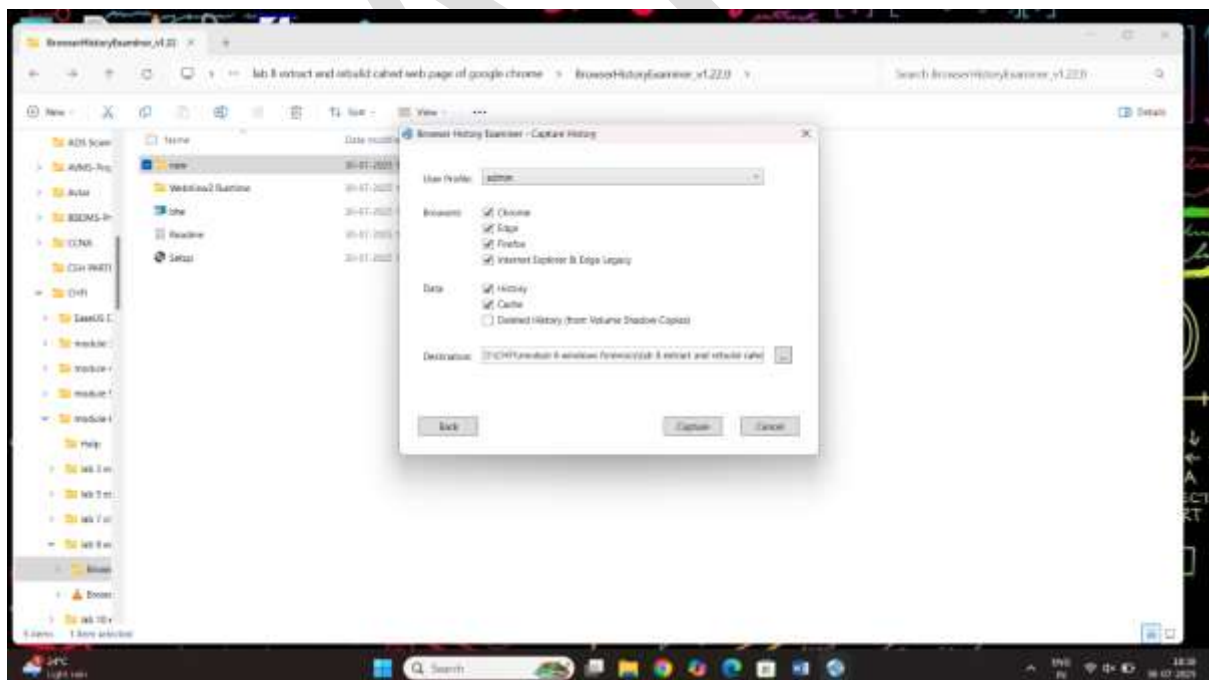


Click on the next

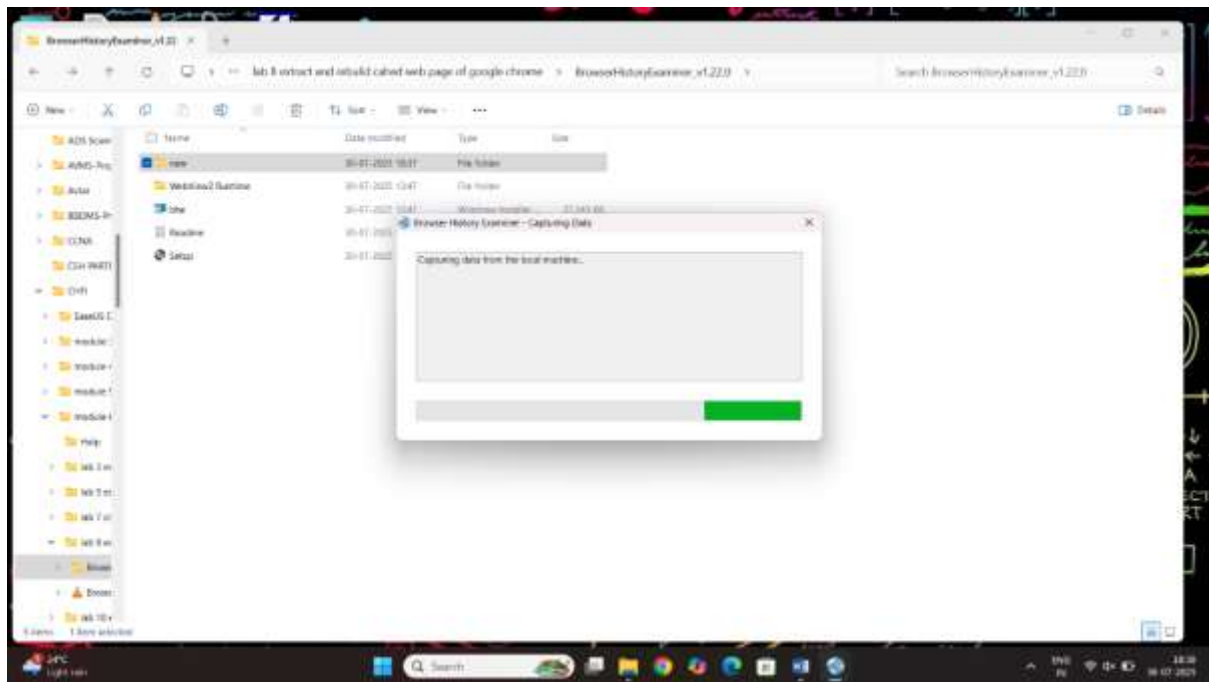




Step5 select the destination file



Click on the capture

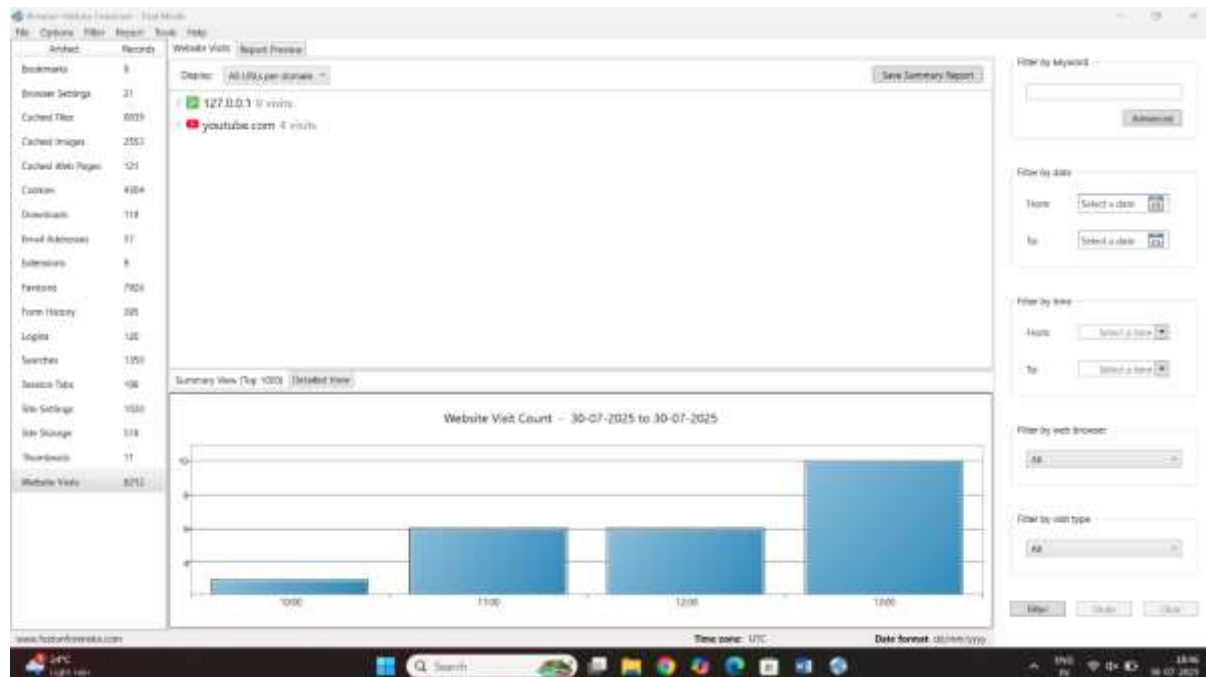


Step6 Extracting data process on





Result:

[illegible]

Browser History Extension - Tool Menu

FileOptionsFilterReportToolsHelp

MethodRecords

Bookmarks8

Browser Settings21

Cached Files8009

Cached Images2553

Cached Web Pages121

Cookies4004

Downloads118

Email Addresses37

Extensions6

Favorites7629

Form History305

Logins106

Searches1260

Session Tabs696

Site Settings5000

Site Storage318

Thunderbolt11

Website Vitals62712

Cached Web PagesReport Profiles

Last FetchedServer TimeURLFetch CountFile Size (bytes)Web Browser (Profile)

https://www.bing.com/images/detail?imgrefid=765d4635181490460

20081

Edge (Default)

https://www.bing.com/search?q=Snapchat&filter=sqr%3A%2Csnapchat%

153452

Edge (Default)

https://www.google.com/news?hl=en&q=bing+ngl&rlz=1c11627744

93318

Chrome (Default)

https://m.search.yahoo.com/bksearch?pgant=cdb&lang=ysh-0520g-g-

75124

Chrome (Default)

https://news.dance.co.uk.com/SAP%2B+1&pagejs=source%2Cdetail&lang=en

71425

Chrome (Default)

https://news.dance.co.uk.com/SAP%2B+1&pagejs=source%2Cdetail&lang=en

70866

Chrome (Default)

https://m.search.yahoo.com/bksearch?pgant=cdb&lang=ysh-0520g-g-

93042

Chrome (Default)

https://m.search.yahoo.com/bksearch?pgant=cdb&lang=ysh-0520g-g-

82812

Chrome (Default)

https://m.search.yahoo.com/bksearch?pgant=cdb&lang=ysh-0520g-g-

81781

Chrome (Default)

https://github.com/fleming/Gitex-B-Gate

61213

Chrome (Default)

https://github.com/roguex/roguex-fs

57206

Chrome (Default)

https://www.google.com/

55919

Chrome (Default)

https://m.search.yahoo.com/ysh/page%2C?pgant=cdb&lang=ysh-0520g-g-

41812

Chrome (Default)

https://www.facebook.com/

44815

Chrome (Default)

https://archive.org/details/bing-appy-2.1

41088

Chrome (Default)

Viewing 23/25 records

1 of 7 pages

Page size20

Time zone: UTC

Date format: dd/mm/yyyy

www.facebook.com

18.8

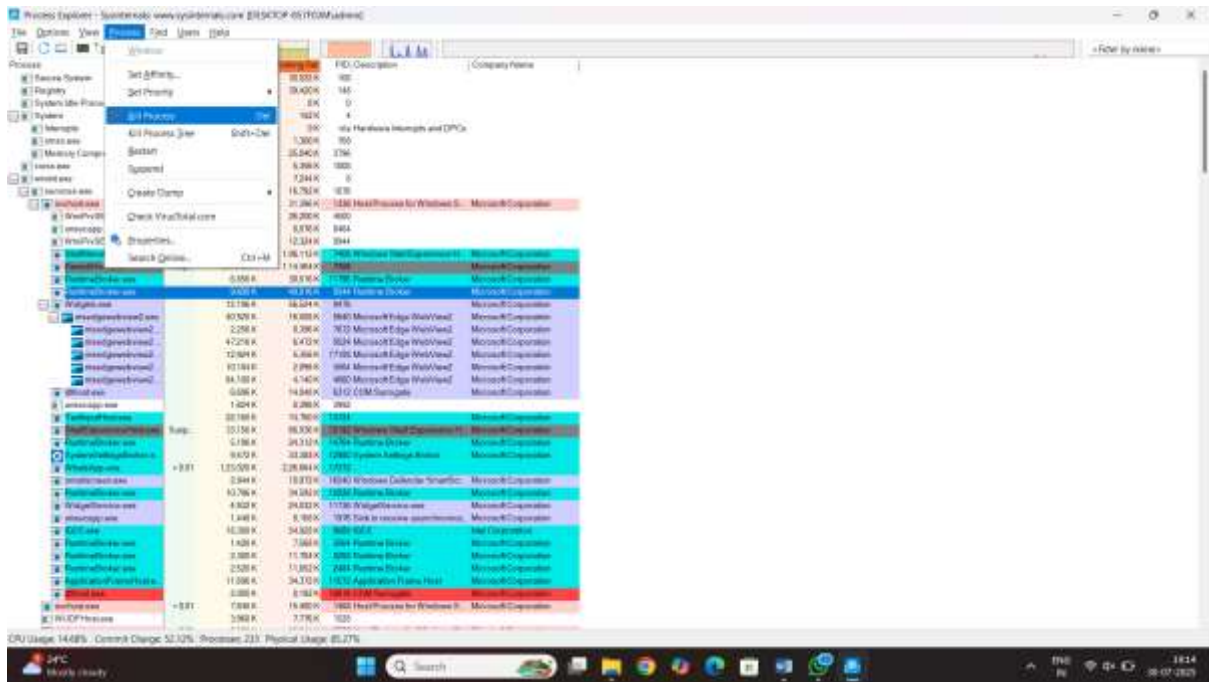
18-07-2023

# Lab7 extract information about loaded process on a computer

## Step1 start the application

[illegible]

## Step2 how to kil malicious process



Click on kill process

MAYUR