

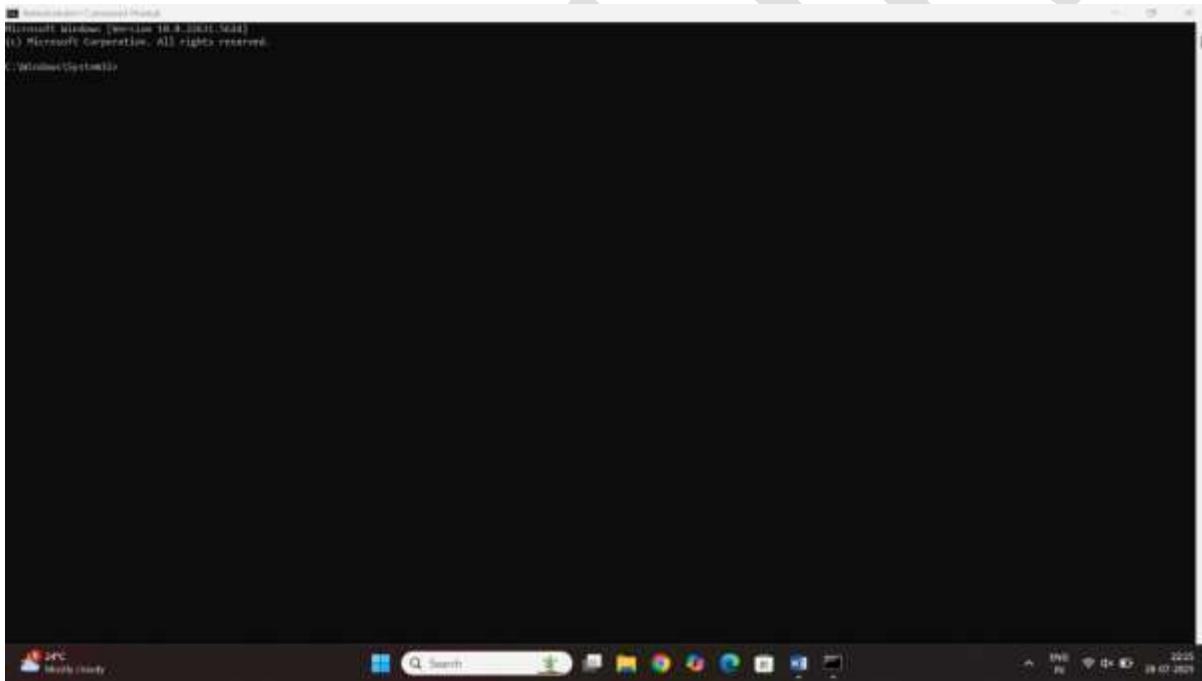
## Module 6 windows forensics

### Lab 1 Acquire volatile information windows machine

**There was tool called PS tool**

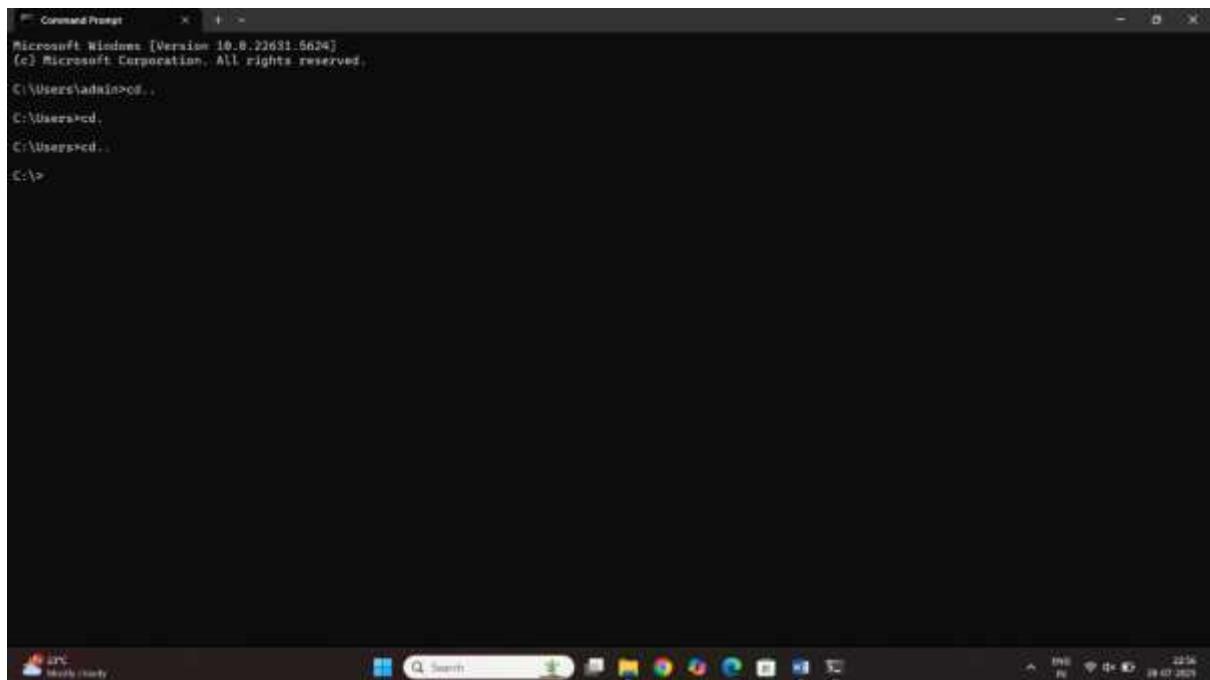
Step1 download the ps tool

Step2 open the ps cmd run as administrative

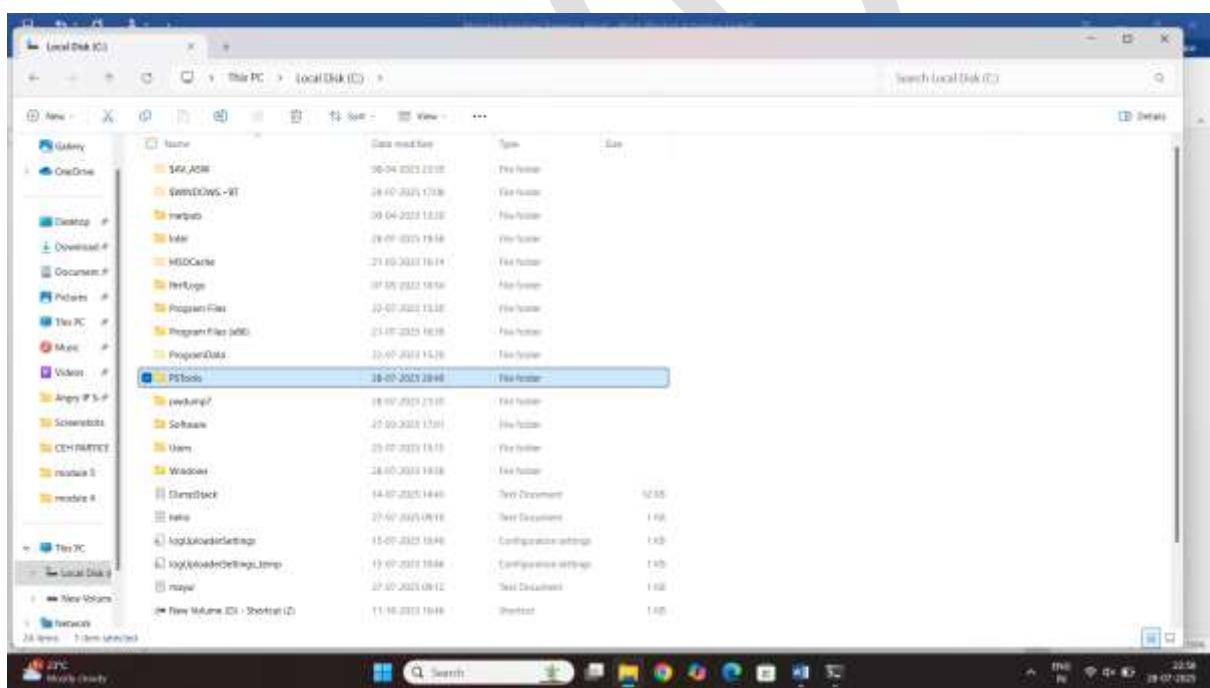


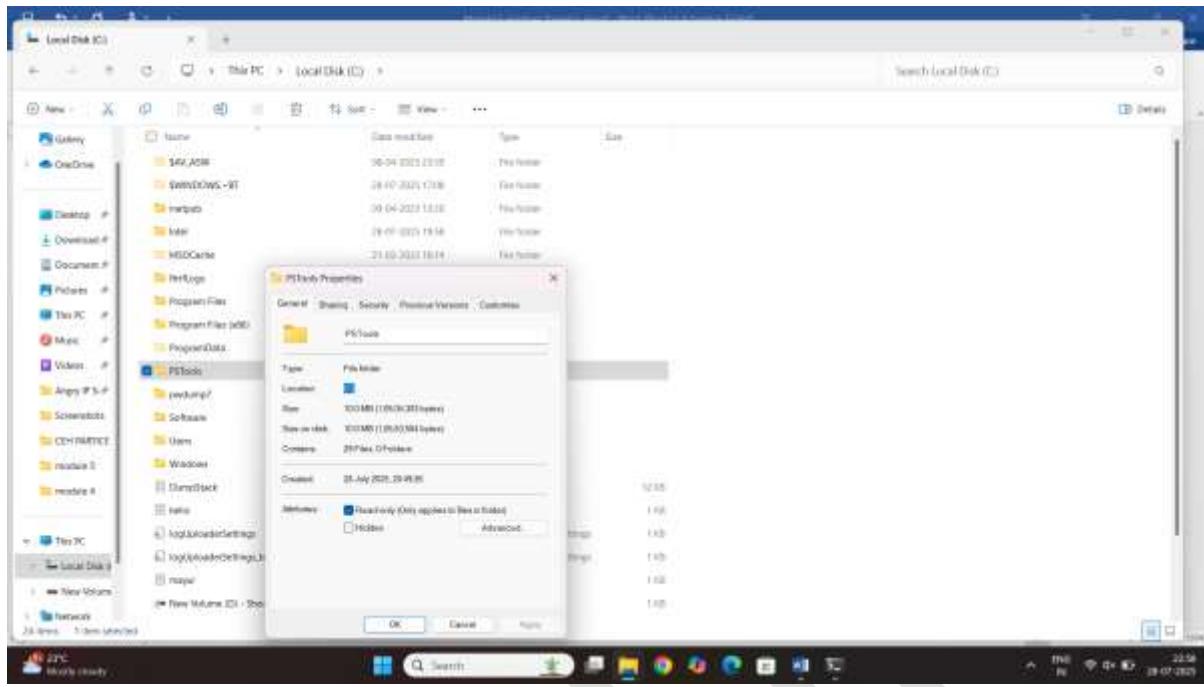
Step3 go to c drive

Command: cd..



Step4 go to ps tool path open them cmd





```
C:\> Command Prompt
Microsoft Windows [Version 10.0.22631.5624]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>
C:\Users>cd..
C:\>cd..

C:\>dir
Volume in drive C has no label.
Volume Serial Number is 0098-D8E4

Directory of C:\

18-07-2023 18:47 12,288 DumpStack.log
27-07-2023 09:18 3 hello.txt
00-08-2023 13:28 <DIR>    inetpub
20-07-2023 19:56 <DIR>    intel
25-07-2023 18:46 100 LogUploaderSettings.ini
25-07-2023 18:46 100 LogUploaderSettings.temp.ini
27-07-2023 09:12 3 layout.txt
11-10-2023 16:45 525 New Volume (0) - Shortcut (2).lnk
14-05-2023 11:23 525 New Volume (0) - Shortcut (3).lnk
20-06-2023 21:05 525 New Volume (0) - Shortcut.lnk
07-05-2022 18:54 <DIR>    PerfLogs
22-07-2023 15:29 <DIR>    Program Files
21-07-2023 16:37 <DIR>    Program Files (x86)
20-07-2023 20:40 <DIR>    PSTools
20-07-2023 21:35 <DIR>    pdump7
02-05-2023 15:47 849 Snort.alert.txt
27-03-2023 17:01 <DIR>    Software
25-07-2023 18:18 <DIR>    Users
27-05-2023 09:43 800 Videos - Shortcut.lnk
20-07-2023 19:56 <DIR>    Windows
18 File(s) 19,738 bytes
18 Dir(s) 38,985,768,128 bytes free

C:\>
```

Step5 go to ps tool directory

Command: cd pstool

```
C:\PSTools>dir
Volume in drive C has no label.
Volume Serial Number is 0498-DHEA

Directory of C:\PSTools

28-07-2023  20:49    <DIR>.
28-07-2023  17:13          7,098 Psalsa.txt
28-07-2023  17:13         716,176 PsExec.exe
28-07-2023  17:13        813,472 PsExec64.exe
28-07-2023  17:14        231,080 PsFile.exe
28-07-2023  17:13        289,168 PsFile64.exe
28-07-2023  17:13        413,632 PsGetSid.exe
28-07-2023  17:13        586,384 PsGetSid64.exe
28-07-2023  17:13        843,128 PsInfo.exe
28-07-2023  17:13        515,980 PsInfo64.exe
28-07-2023  17:13        398,582 PsKill.exe
28-07-2023  17:13        476,592 PsKill64.exe
28-07-2023  17:13        237,528 PsList.exe
28-07-2023  17:13        287,136 PsList64.exe
28-07-2023  17:13        151,728 PsLoggdon.exe
28-07-2023  17:13        170,140 PsLoggdon64.exe
28-07-2023  17:13        312,768 PsLoglist.exe
28-07-2023  17:13        378,776 PsLoglist64.exe
28-07-2023  17:13        222,152 PsPasswd.exe
28-07-2023  17:13        270,788 PsPasswd64.exe
28-07-2023  17:13        287,168 PsPing.exe
28-07-2023  17:13        347,924 PsPing64.exe
28-07-2023  17:13        268,158 PsService.exe
28-07-2023  17:13        322,448 PsService64.exe
28-07-2023  17:13        691,080 PsShutdown.exe
28-07-2023  17:13        889,920 PsShutdown64.exe
28-07-2023  17:13        193,160 PsSuspend.exe
28-07-2023  17:13        488,136 PsSuspend64.exe
28-07-2023  17:13        66,582 PsTools.chm
28-07-2023  17:13        39 PsVersion.txt
               29 File(s)   10,594,283 bytes free
               1 Dir(s)  38,129,695,688 bytes free

C:\PSTools>
```

Step6 type the command psLoggdon.exe

```
C:\PSTools>PsLoggdon.exe
PsLoggdon v1.25 - See who's logged on
Copyright (C) 2000-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

Users logged on locally:
 28-07-2023 19:58:32      DESKTOP-859FB3M\admin

No one is logged on via resource shares.

C:\PSTools>
```

## Step7 command psloglist.exe

```

C:\> Command Prompt - pslist.exe
28-07-2025 17:13      398,552 pskill.exe
28-07-2025 17:13      476,392 pskill64.exe
28-07-2025 17:15      217,520 pslist.exe
28-07-2025 17:15      267,136 pslist64.exe
28-07-2025 17:15      151,728 Psloggedon.exe
28-07-2025 17:15      176,188 Psloggedond64.exe
28-07-2025 17:17      112,760 psloglist.exe
28-07-2025 17:17      378,776 psloglist64.exe
28-07-2025 17:13      222,152 pspasswd.exe
28-07-2025 17:13      278,768 pspasswd64.exe
28-07-2025 17:13      287,188 rnsing.exe
28-07-2025 17:13      347,824 rnsing64.exe
28-07-2025 17:13      268,168 PsService.exe
28-07-2025 17:13      322,408 PsService64.exe
28-07-2025 17:13      691,889 psshutdown.exe
28-07-2025 17:15      889,928 psshutdown64.exe
28-07-2025 17:17      393,168 pssuspend.exe
28-07-2025 17:17      888,116 psuspend64.exe
28-07-2025 17:13      66,582 Pstools.chm
28-07-2025 17:13      39 psversion.txt
29 File(s) 10,584,581 bytes
1 Dir(s) 30,130,400,888 bytes free

C:\>PsTools>PsLoggedon.exe

PsLoggedon v1.35 - See who's logged on
Copyright (C) 2000-2025 Mark Russinovich
Sysinternals - www.sysinternals.com

Users logged on locally:
28-07-2025 19:58:32      DESKTOP-B57FB3M\admin

No one is logged on via resource shares.

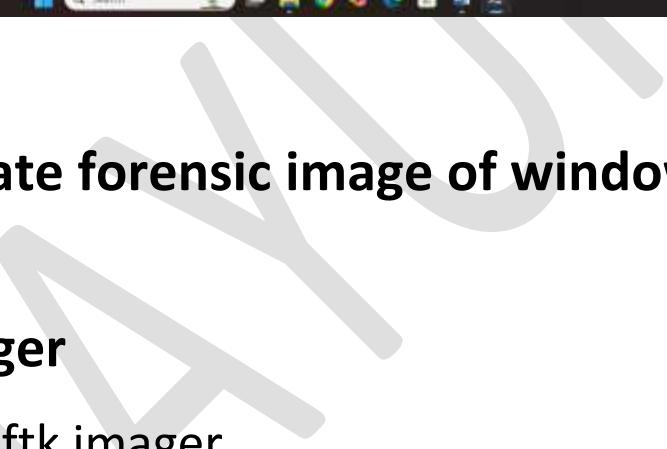
C:\>PsTools>pslist.exe

PsList v1.11 - Process information lister
Copyright (C) 2000-2025 Mark Russinovich
Sysinternals - www.sysinternals.com

```

## Result:

Process	PID	CPU	Memory	Details
dm	1908	13	22	1385 176688 0:02:44.343 3:03:07.446
svchost	1976	8	6	192 2016 0:00:00.002 3:03:07.446
svchost	2968	8	11	271 3856 0:00:01.566 3:03:07.436
MUDHost	1336	13	15	482 7412 0:00:02.259 3:03:07.422
svchost	2184	8	4	199 1568 0:00:00.312 3:03:07.487
IntelCpHeciSvC	2188	8	3	156 1448 0:00:00.078 3:03:07.392
svchost	2324	8	2	195 1934 0:00:00.218 3:03:07.346
svchost	2372	8	2	252 3316 0:00:00.796 3:03:07.346
svchost	2556	8	6	423 6598 0:00:05.375 3:03:07.305
svchost	2572	8	18	354 4884 0:00:13.109 3:03:07.301
igfxUIService	2584	8	2	195 2132 0:00:00.109 3:03:07.295
svchost	2688	8	3	193 1984 0:00:01.011 3:03:07.285
svchost	2692	8	2	219 1988 0:00:00.312 3:03:07.267
svchost	2772	8	2	199 2312 0:00:00.073 3:03:07.241
svchost	3016	8	5	235 2388 0:00:01.573 3:03:07.171
MUDHost	9848	8	5	215 1416 0:00:00.815 3:03:07.166
svchost	2568	8	1	127 1324 0:00:00.078 3:03:07.086
ncmUshUpgradeService	3088	8	2	238 30516 0:00:00.171 3:03:07.076
svchost	3248	8	9	683 32596 0:01:17.759 3:03:07.086
Helperservice	3328	8	1	208 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 0064 0:00:00.125 3:03:06.978
conhost	3416	6	4	162 5776 0:00:00.109 3:03:06.959
Memory Compression	3464	8	46	8 2292 0:00:26.258 3:03:06.944
svchost	3672	8	13	474 18876 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	199 1996 0:00:00.781 3:03:06.825
svchost	3848	8	4	298 9924 0:00:00.187 3:03:06.731
svchost	3928	8	8	462 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 2964 0:00:00.375 3:03:06.131
svchost	3576	8	13	530 6674 0:00:01.718 3:03:06.086
svchost	4124	8	4	249 2636 0:00:00.187 3:03:06.083
svchost	4148	8	7	239 3112 0:00:00.187 3:03:06.087
avastSvc	4248	8	163	5574 131488 0:00:55.609 3:03:05.939
avast	4452	8	2	215 1280 0:00:00.093 3:03:05.822
conhost	4668	8	2	119 5200 0:00:00.000 3:03:05.815
svchost	4558	8	1	227 2748 0:00:00.234 3:03:05.758
svchost	4608	8	31	568 14768 0:03:25.013 3:03:05.723
awsToolsSvc	4712	8	38	1551 46168 0:00:12.781 3:03:05.598



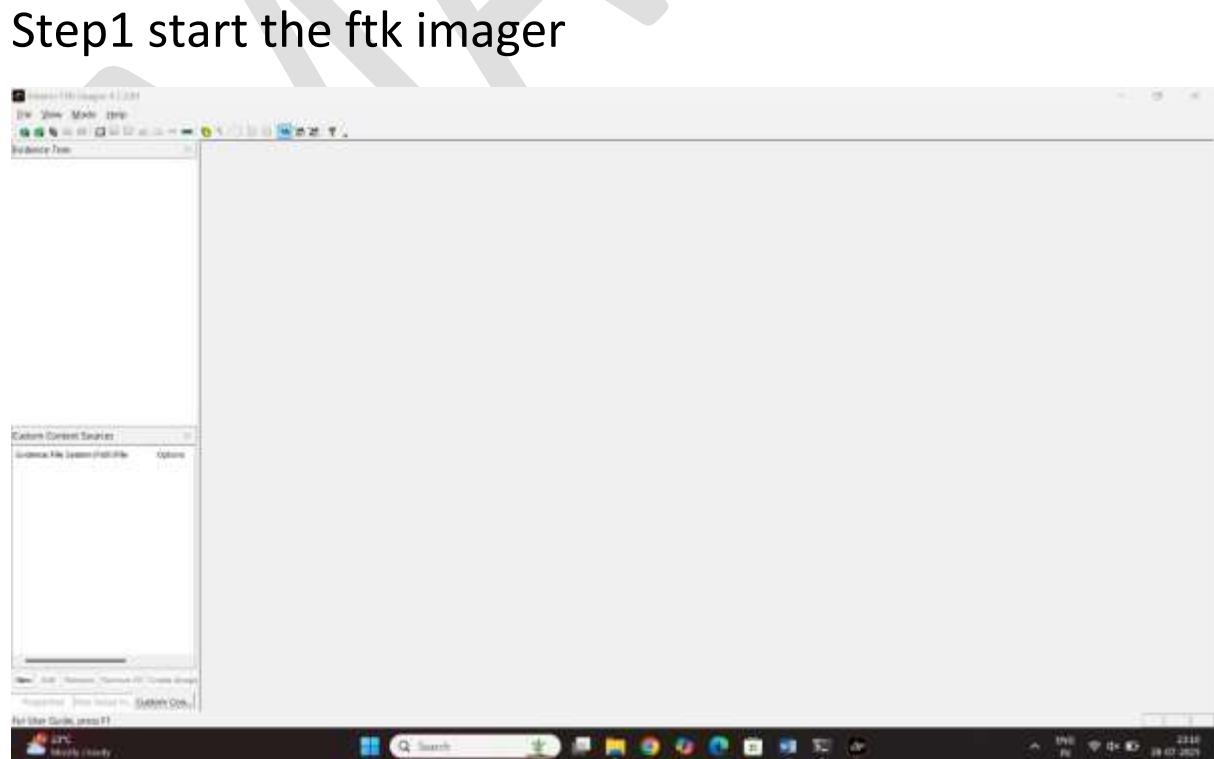
Windows Task Manager (Command Prompt)

Process Name	Process ID	Threads	Memory Usage (MB)	Working Set (MB)	Virtual Size (MB)	Page Faults	Priority	Processor Time (ms)	Start Address
medgwebview2	11840	8	7	157	2288	0:00:00.046	2:57:36.420		0x0000000000000000
medgwebview2	5808	16	19	401	34076	0:00:00.593	2:57:35.700		0x0000000000000000
medgwebview2	2284	8	18	311	31792	0:00:00.511	2:57:35.700		0x0000000000000000
medgwebview2	14388	8	8	172	8952	0:00:00.156	2:57:35.112		0x0000000000000000
medgwebview2	17812	4	18	326	46472	0:00:01.189	2:57:35.186		0x0000000000000000
ApplicationFrameHost	14216	8	1	283	6518	0:00:00.562	2:57:35.438		0x0000000000000000
AvalaunchUI	25112	8	17	635	16168	0:00:00.125	1:54:07.890		0x0000000000000000
svchost	16856	8	10	341	3708	0:00:01.375	1:08:17.821		0x0000000000000000
FileCaAuth	25948	8	2	219	9828	0:00:00.148	1:26:29.174		0x0000000000000000
svchost	24998	8	2	149	1548	0:00:00.831	1:24:83.486		0x0000000000000000
taskhostw	25664	8	4	398	6988	0:00:00.572	1:12:52.286		0x0000000000000000
dllhost	22968	8	3	226	2892	0:00:00.866	0:55:58.241		0x0000000000000000
svchost	4888	8	1	158	1688	0:00:00.913	0:50:22.662		0x0000000000000000
aswidagent	18684	8	26	1844	66752	0:00:13.578	0:58:00.438		0x0000000000000000
medge	12426	8	49	1198	43988	0:00:02.687	0:49:34.476		0x0000000000000000
medge	26452	8	7	162	2572	0:00:00.846	0:49:34.887		0x0000000000000000
medge	26864	8	13	348	29112	0:00:00.203	0:49:33.914		0x0000000000000000
medge	19840	8	22	359	12664	0:00:00.375	0:49:33.912		0x0000000000000000
medge	28968	8	18	387	8828	0:00:00.148	0:49:33.261		0x0000000000000000
svchost	6516	8	4	178	3988	0:00:00.878	0:49:01.988		0x0000000000000000
WhatsApp	3808	8	28	640	39848	0:00:00.656	0:36:37.446		0x0000000000000000
RuntimesBroker	3992	8	5	118	3804	0:00:00.156	0:36:18.196		0x0000000000000000
svchost	15188	8	1	375	1928	0:00:00.031	0:30:32.271		0x0000000000000000
taskapp	26889	8	16	692	16398	0:00:01.234	0:33:18.367		0x0000000000000000
svchost	14832	8	9	421	9728	0:00:00.937	0:33:13.347		0x0000000000000000
svchost	26588	8	2	284	2564	0:00:00.343	0:33:13.828		0x0000000000000000
RuntimesBroker	8888	8	13	551	18252	0:00:01.921	0:33:12.119		0x0000000000000000
dllhost	19724	8	2	135	1692	0:00:00.962	0:33:10.153		0x0000000000000000
svchost	18788	8	11	377	4384	0:00:00.562	0:33:05.759		0x0000000000000000
splunk-optimize	18516	8	1	4	482	0:00:00.886	0:31:49.898		0x0000000000000000
MINWORD	19876	8	21	1429	131124	0:00:29.359	0:05:46.266		0x0000000000000000
cmd	9588	8	4	92	5748	0:00:00.015	0:05:34.879		0x0000000000000000
comhost	26852	8	0	316	1680	0:00:00.015	0:05:34.852		0x0000000000000000
OpenConsole	16548	8	9	283	3124	0:00:00.831	0:05:14.736		0x0000000000000000
WindowsTerminal	8728	8	14	678	26794	0:00:01.656	0:05:14.885		0x0000000000000000
SearchProtocolHost	17988	8	6	374	2988	0:00:00.125	0:04:59.942		0x0000000000000000
SearchFilterHost	24872	8	4	181	2116	0:00:00.015	0:04:57.666		0x0000000000000000
svchost	12816	8	6	167	1824	0:00:00.933	0:02:58.568		0x0000000000000000
pslist	6316	13	6	383	4892	0:00:00.687	0:08:07.392		0x0000000000000000

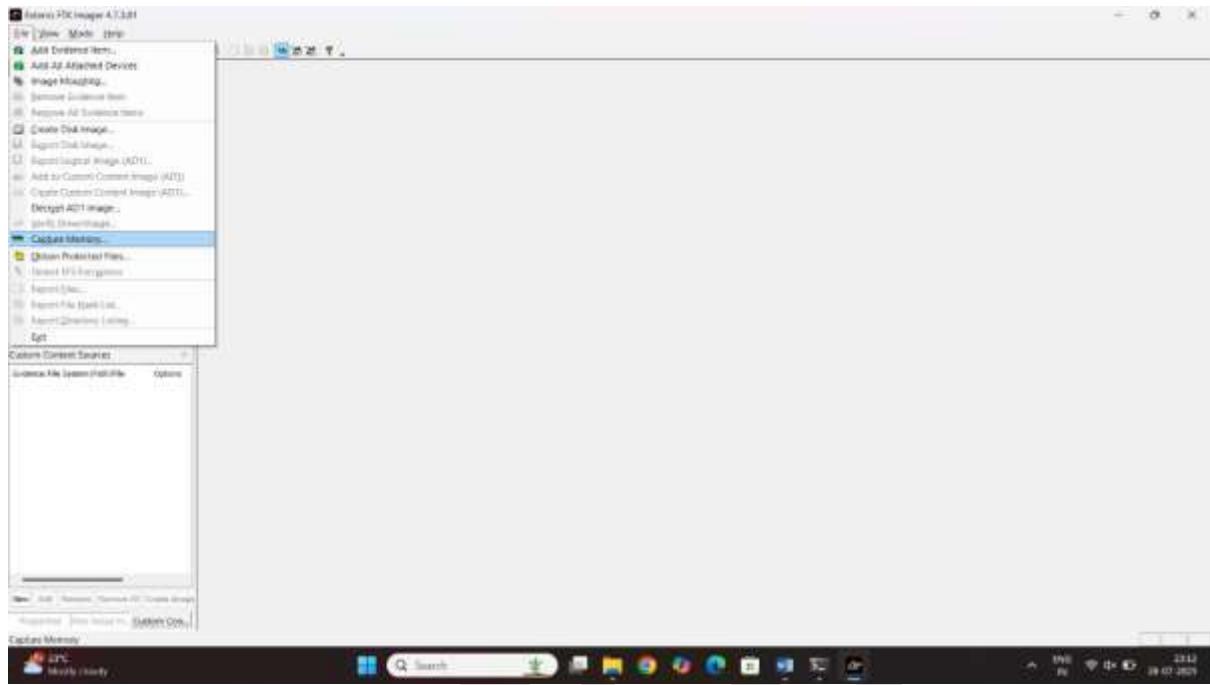
C:\VPSTools>

## Lab2 investigate forensic image of windows RAM capture

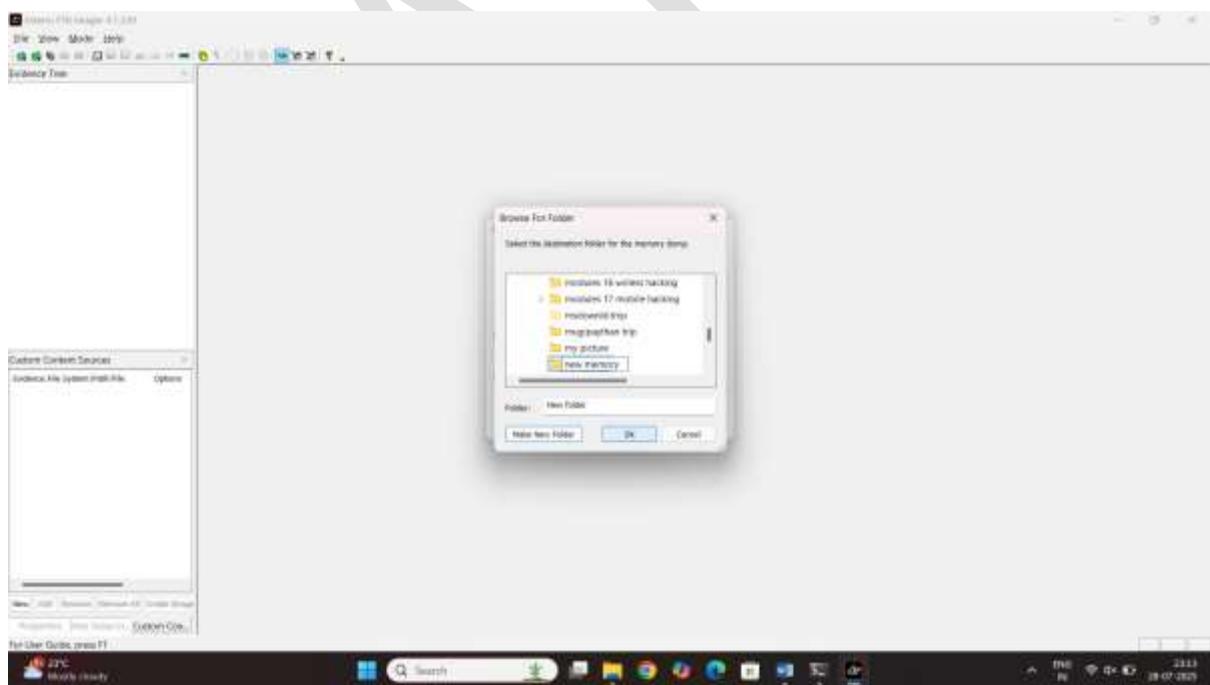
### Using ftk imager

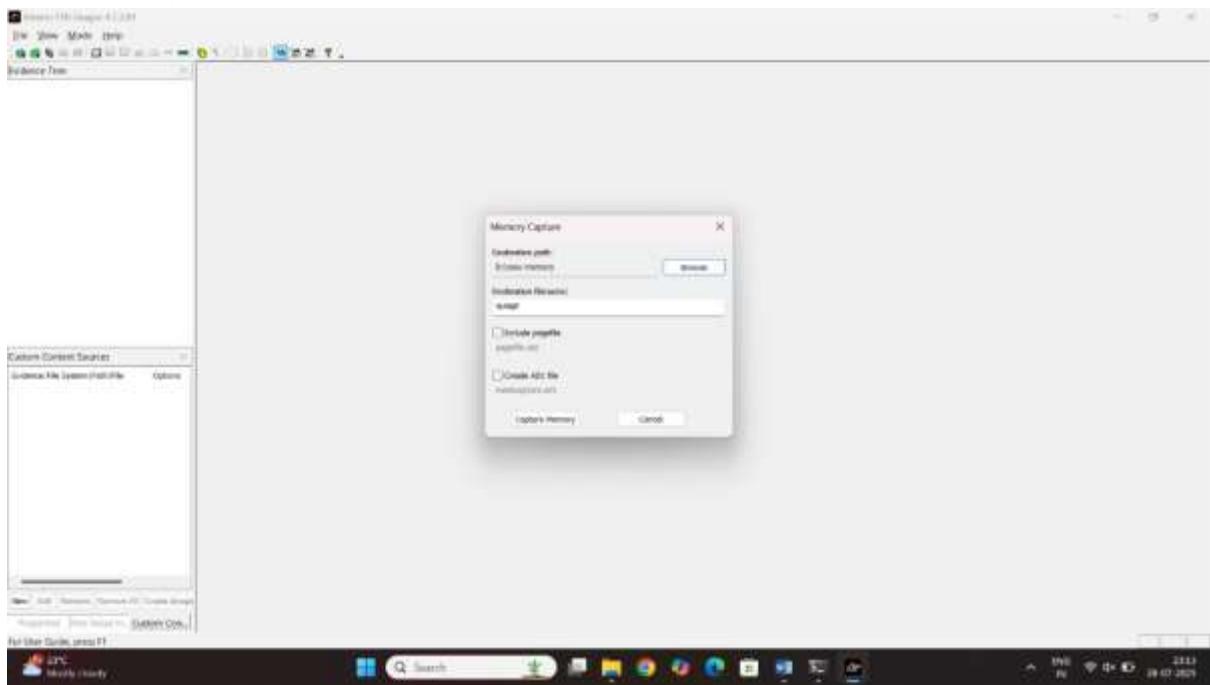


Step2 click on the file and select the option capture memory



Step3 select the destination folder and file name

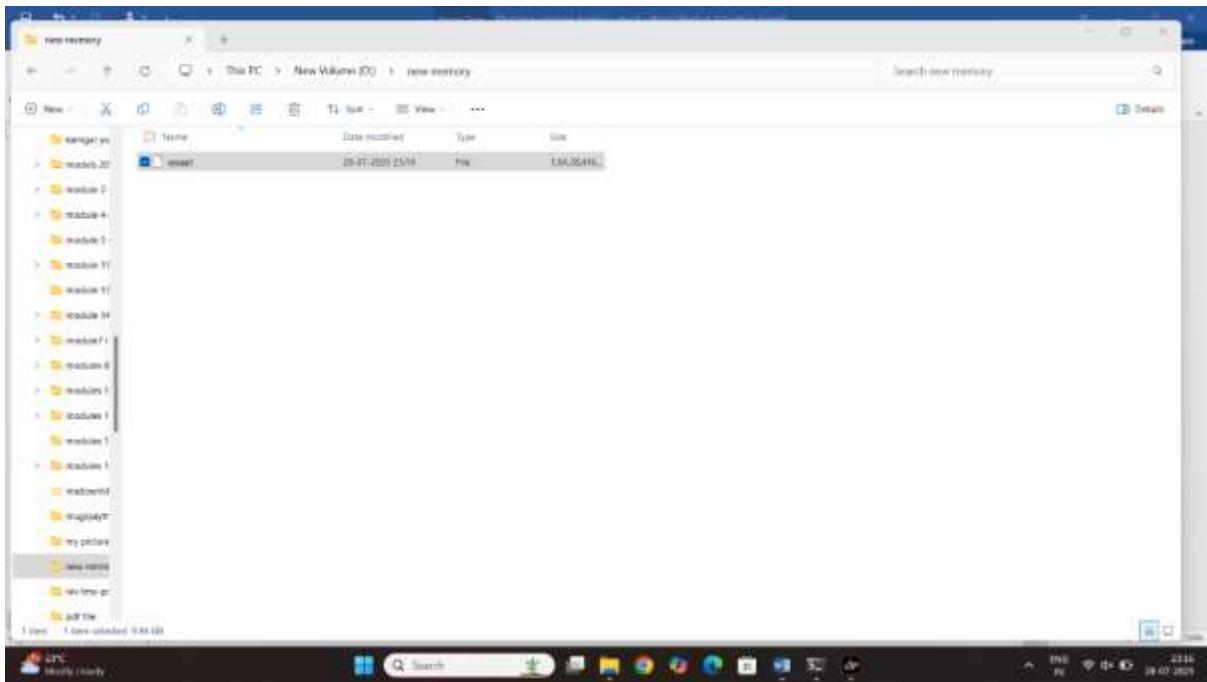




Step4 click on the capture memory



Result:

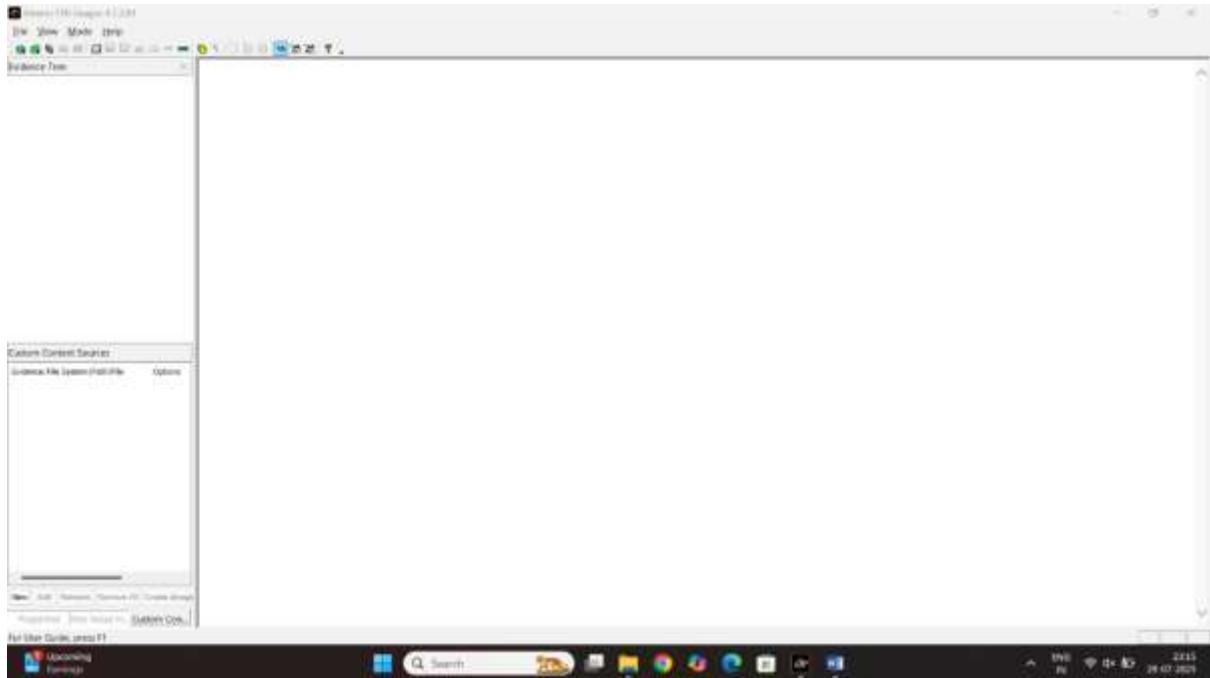


Lab 3 extract and

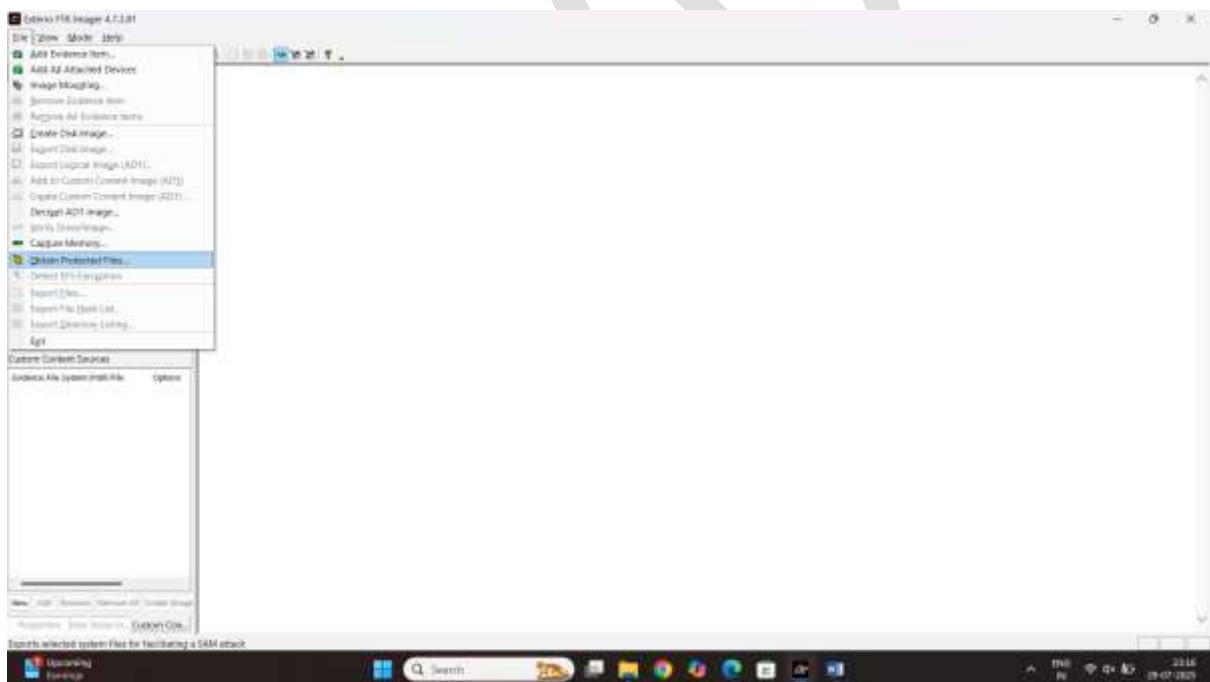
**Lab 4 capture and examine windows registry files  
on live system**

**Using FTK**

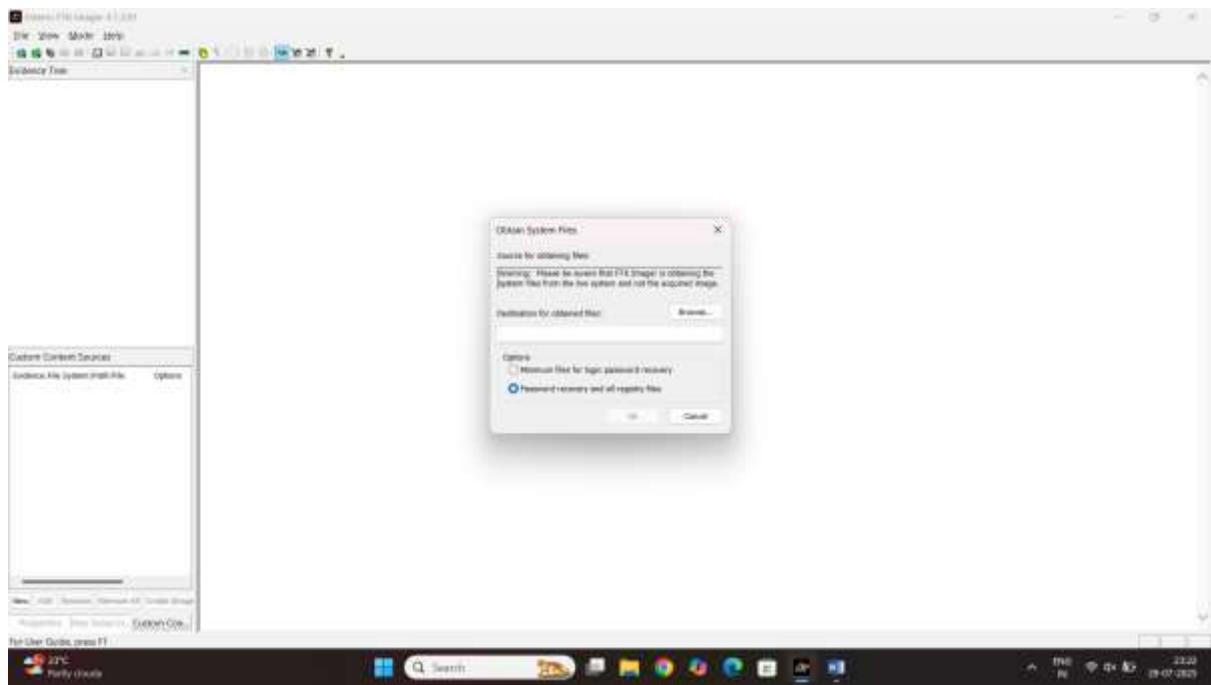
Step1 start the application



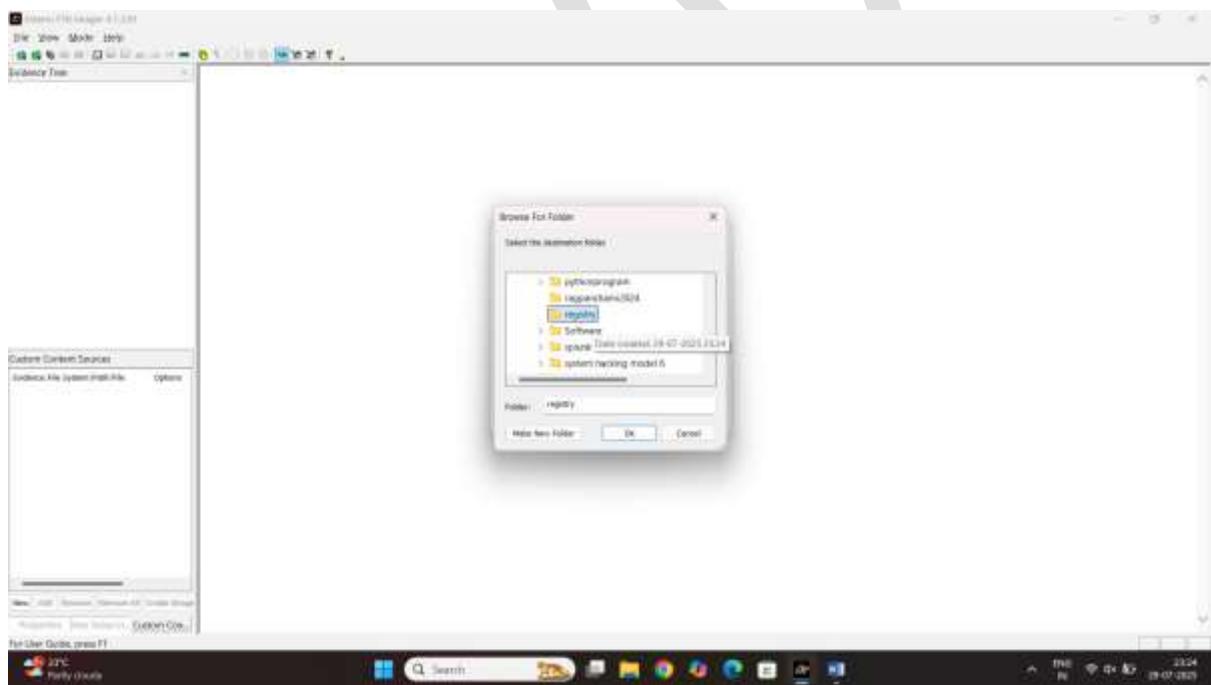
**Step2 click on file and select the protected file**

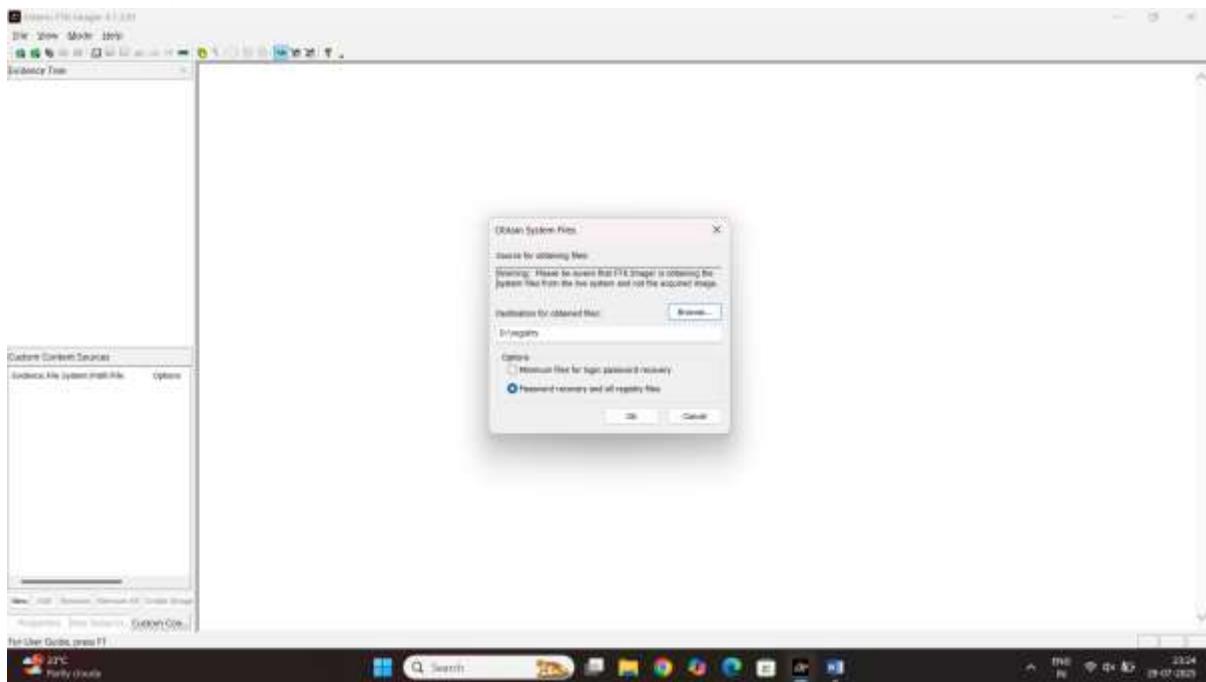


**Step3 select the option password recovery and registry**

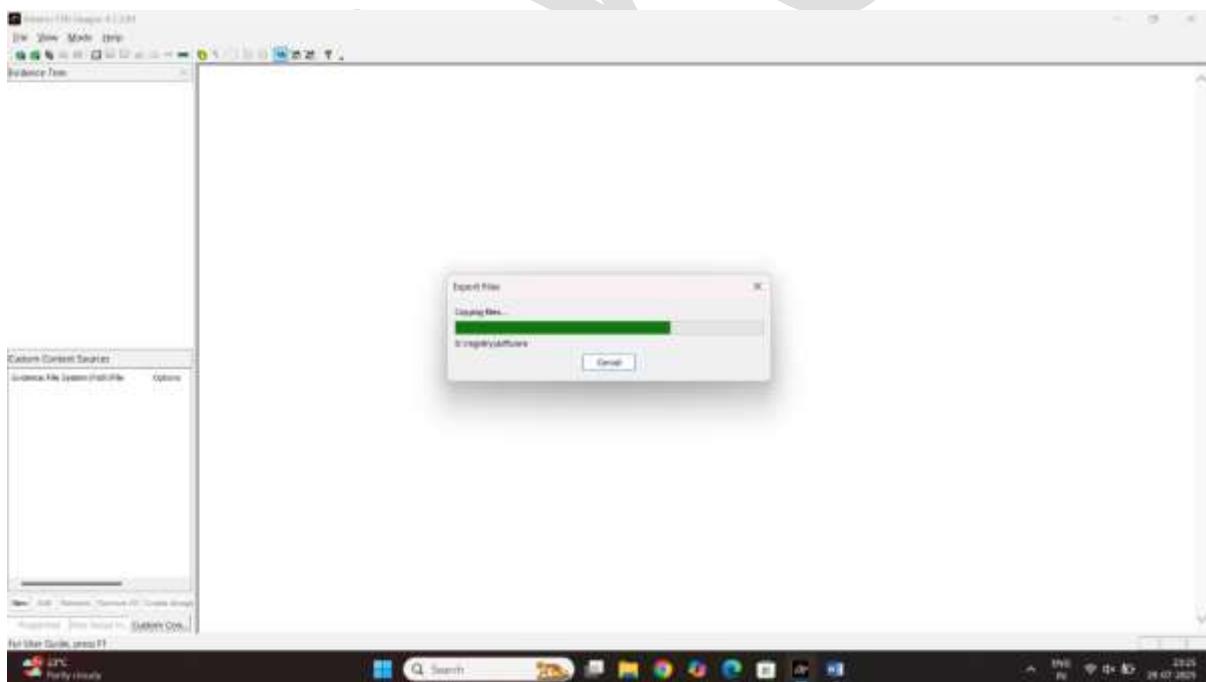


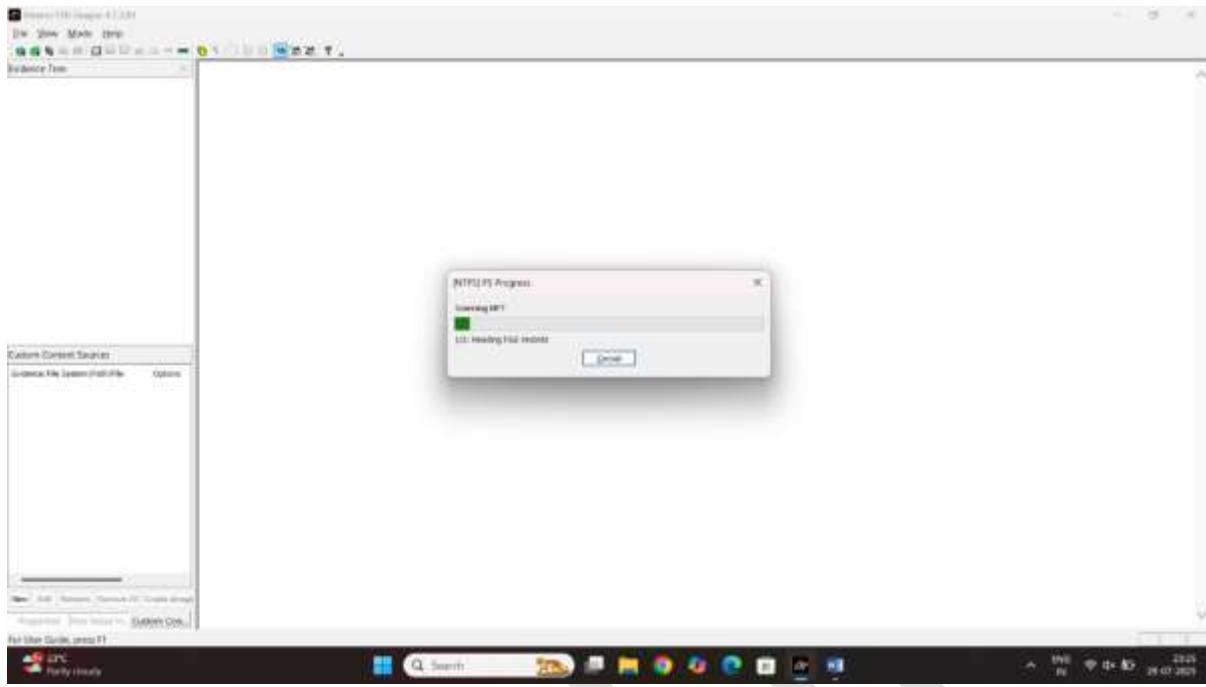
## Step4 select the destination file path



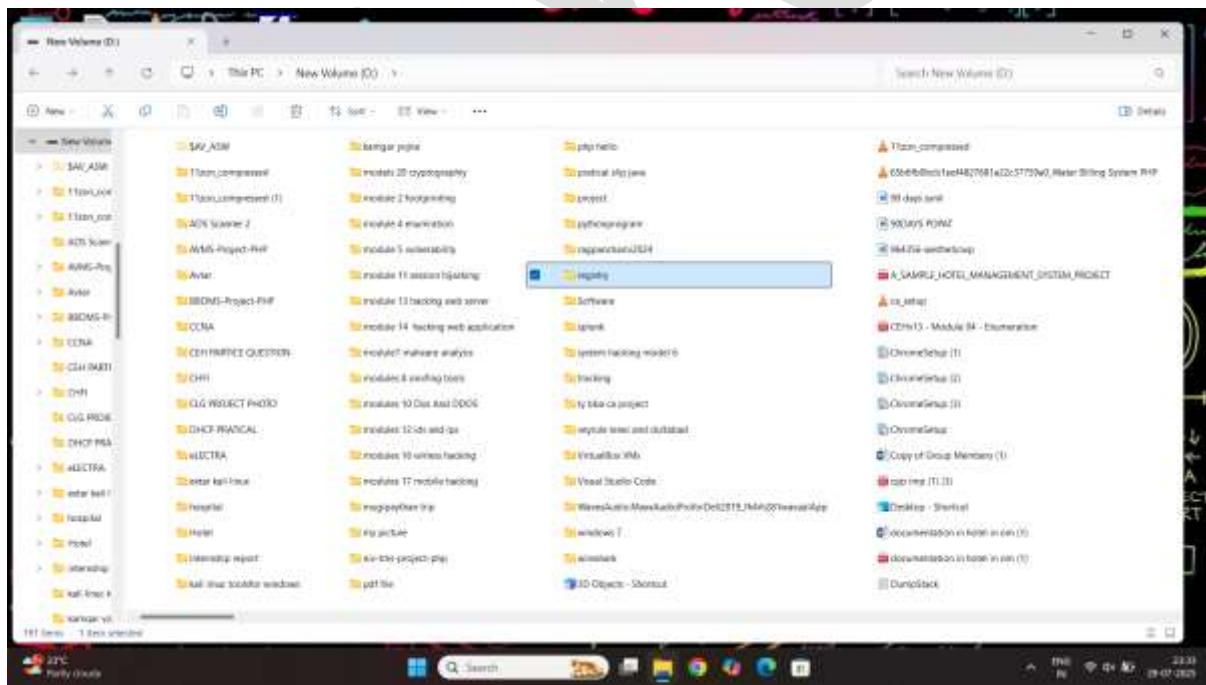


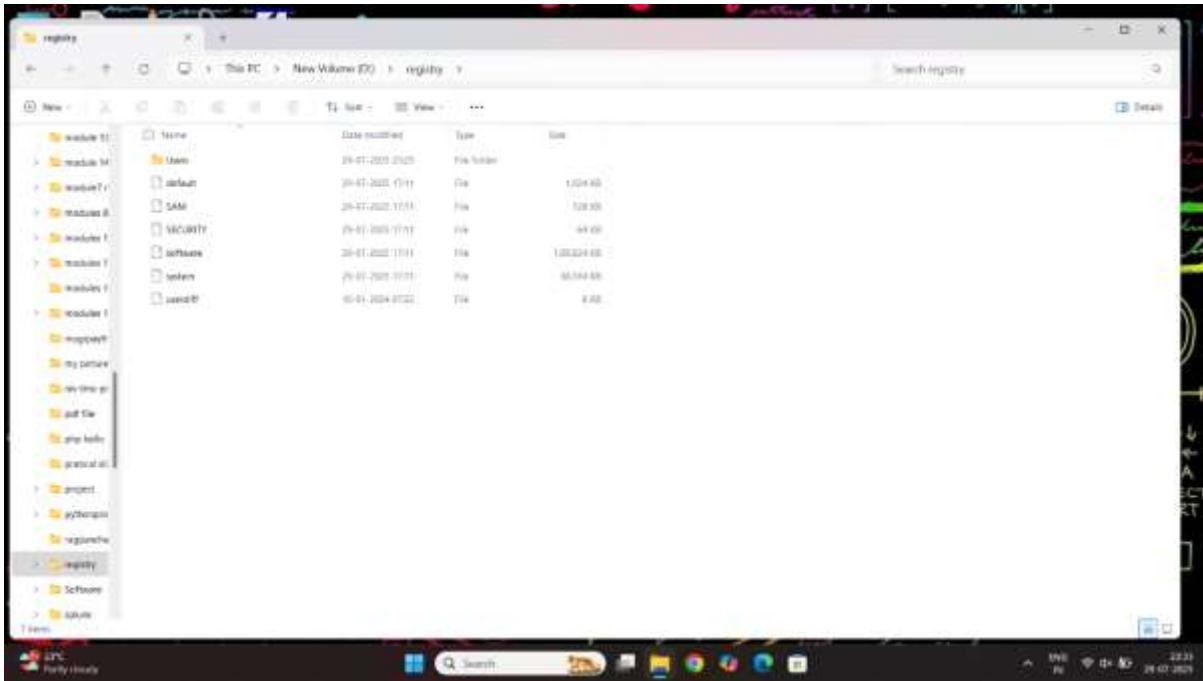
Click on the ok





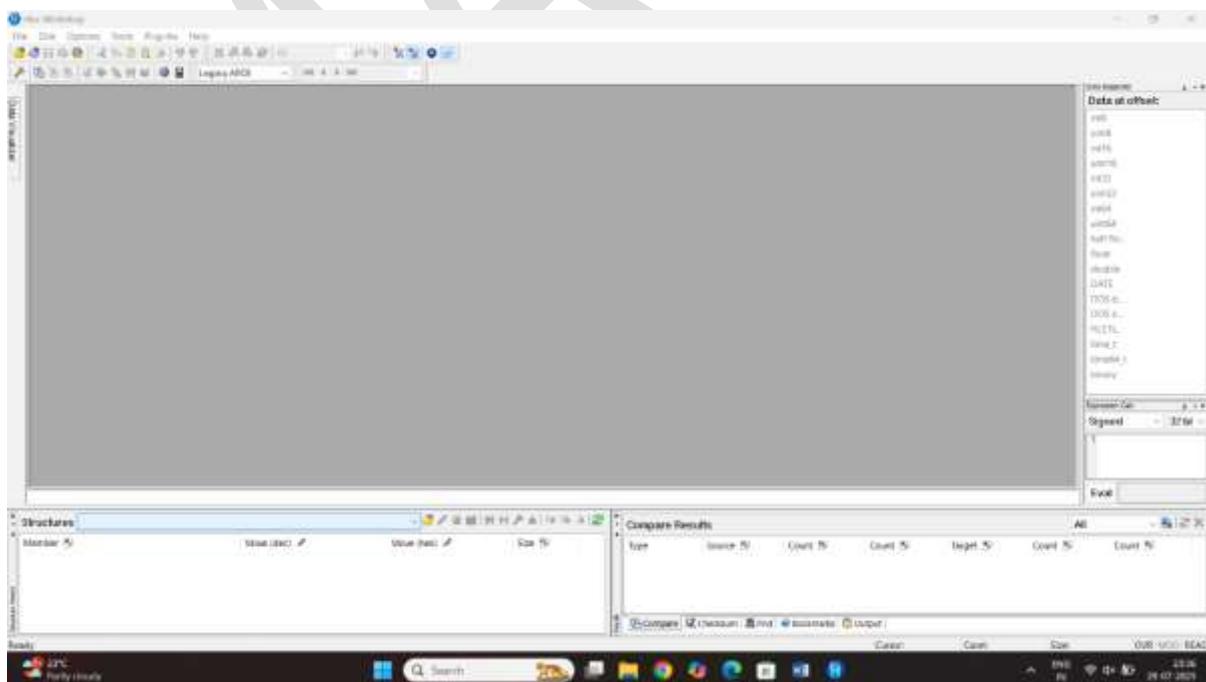
## Step5 go to file registry



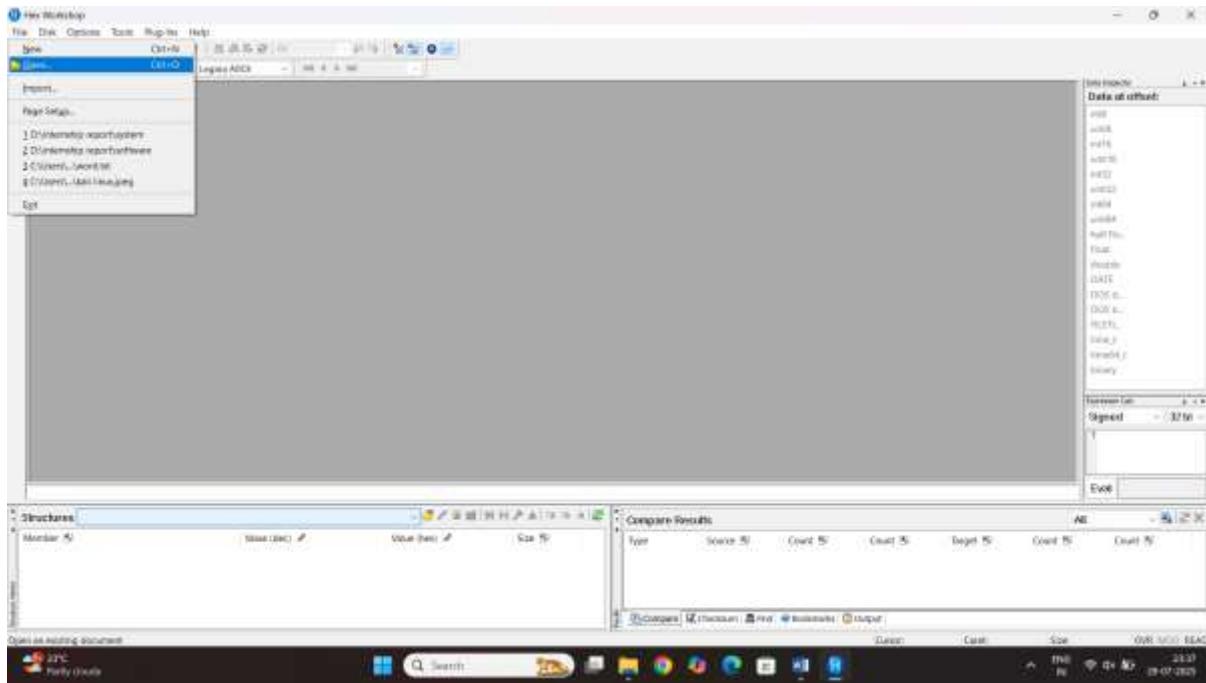


## Lab 5 How to check this registry file using hex work shop

Step1 start the application

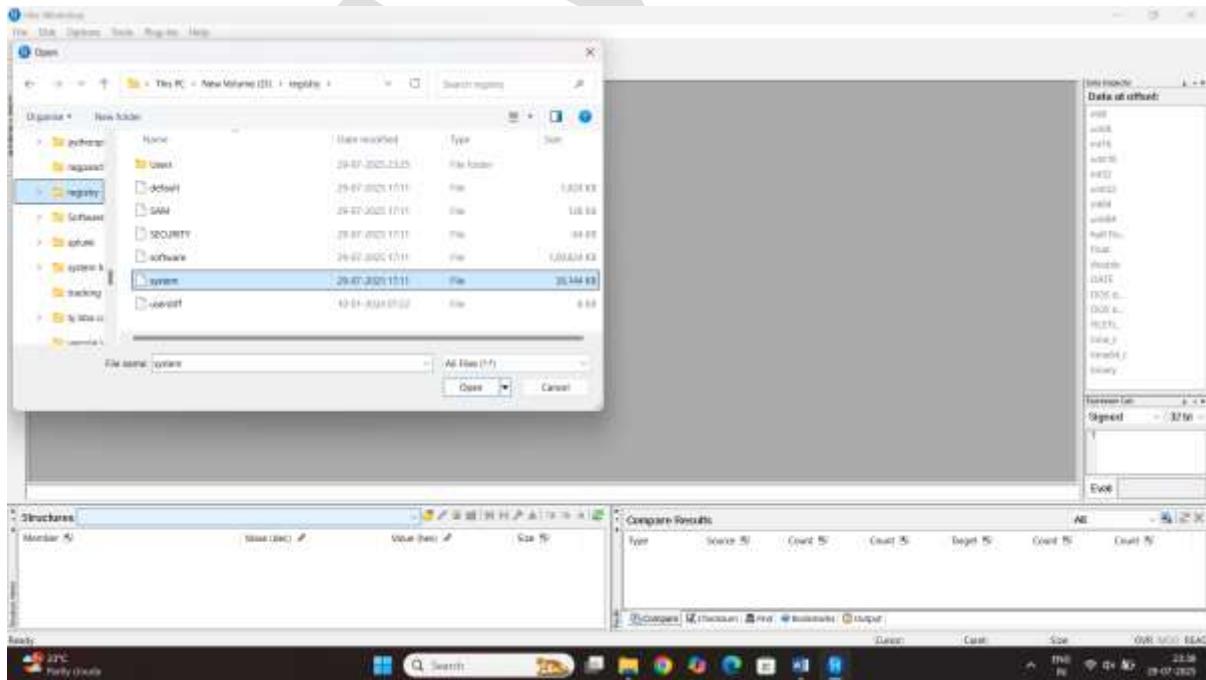


Step2 click on the open option



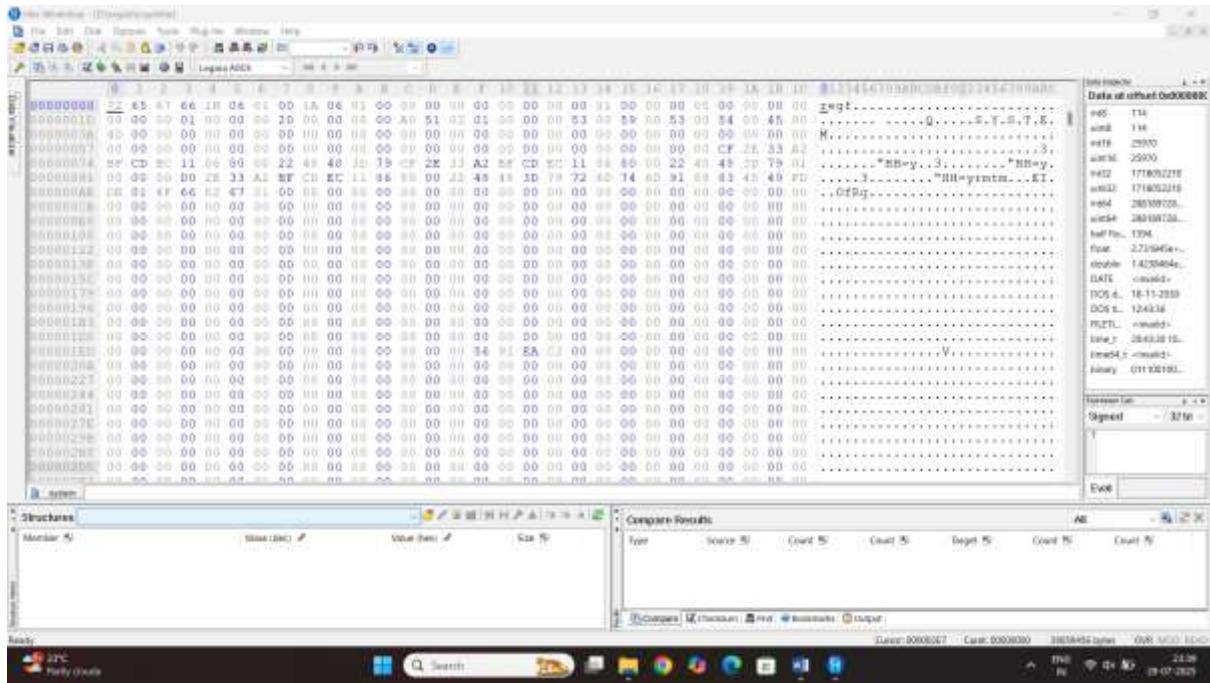
Step3 select the file registry option

Step4 select the registry file



Click on the open

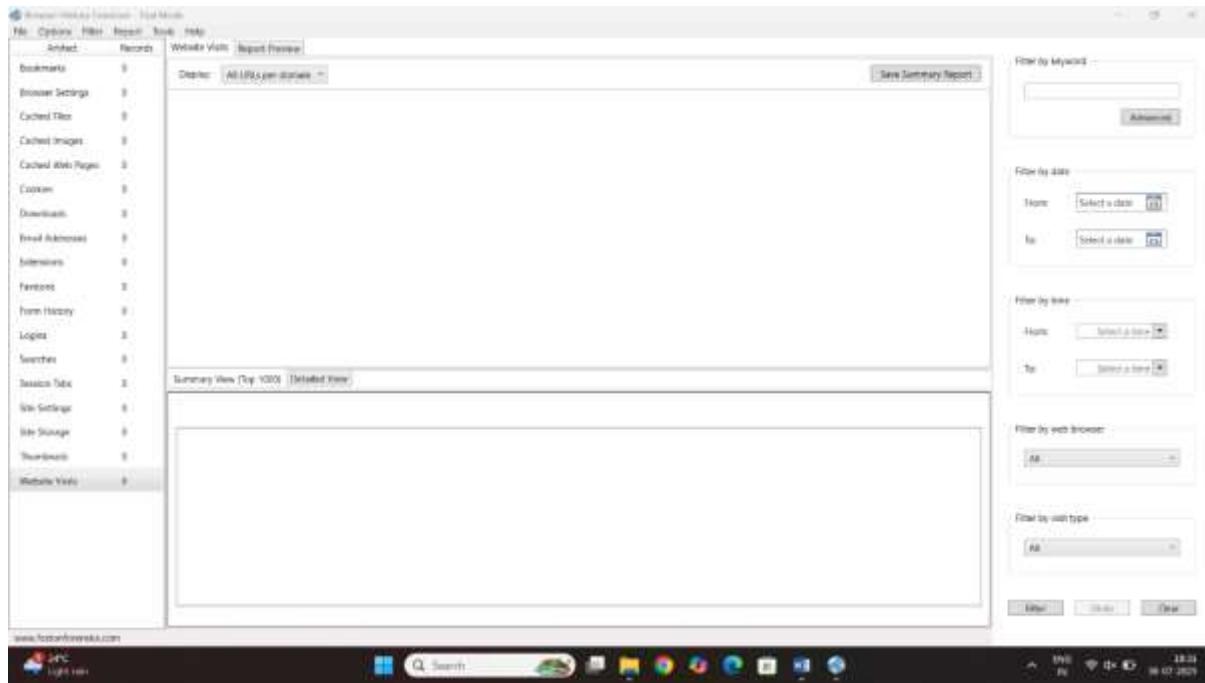
## Result:



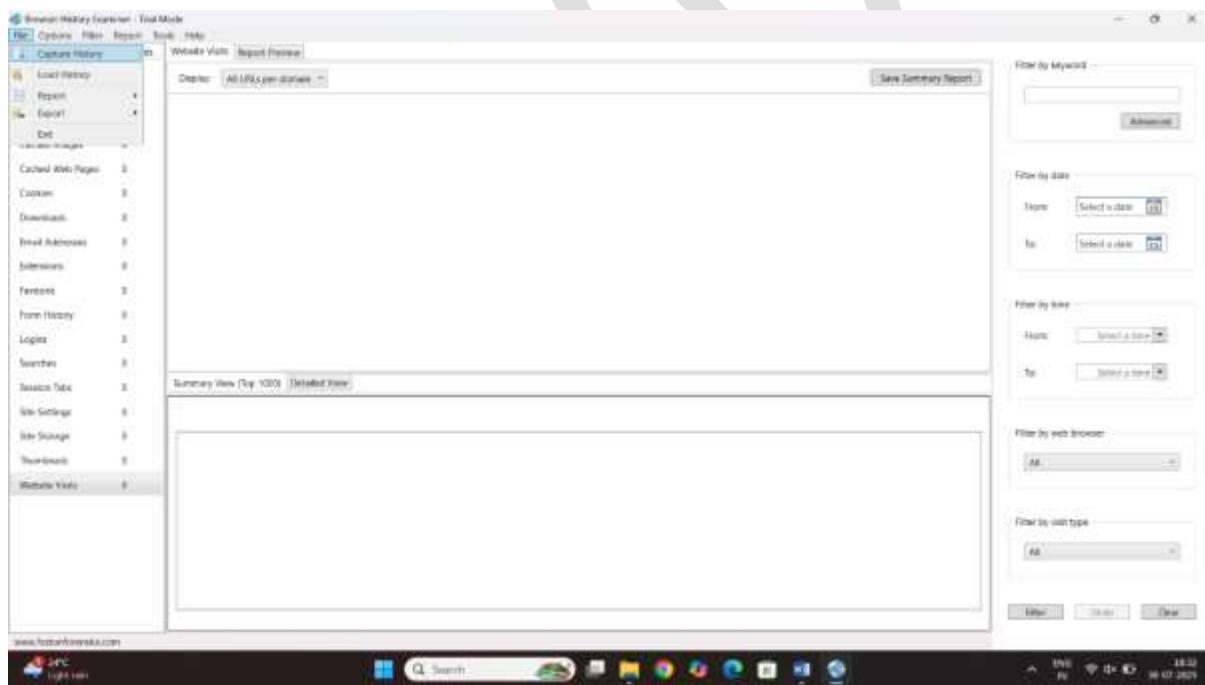
**Lab6 extract and rebuild cached web page of google chrome**

**There was tool called browser History**

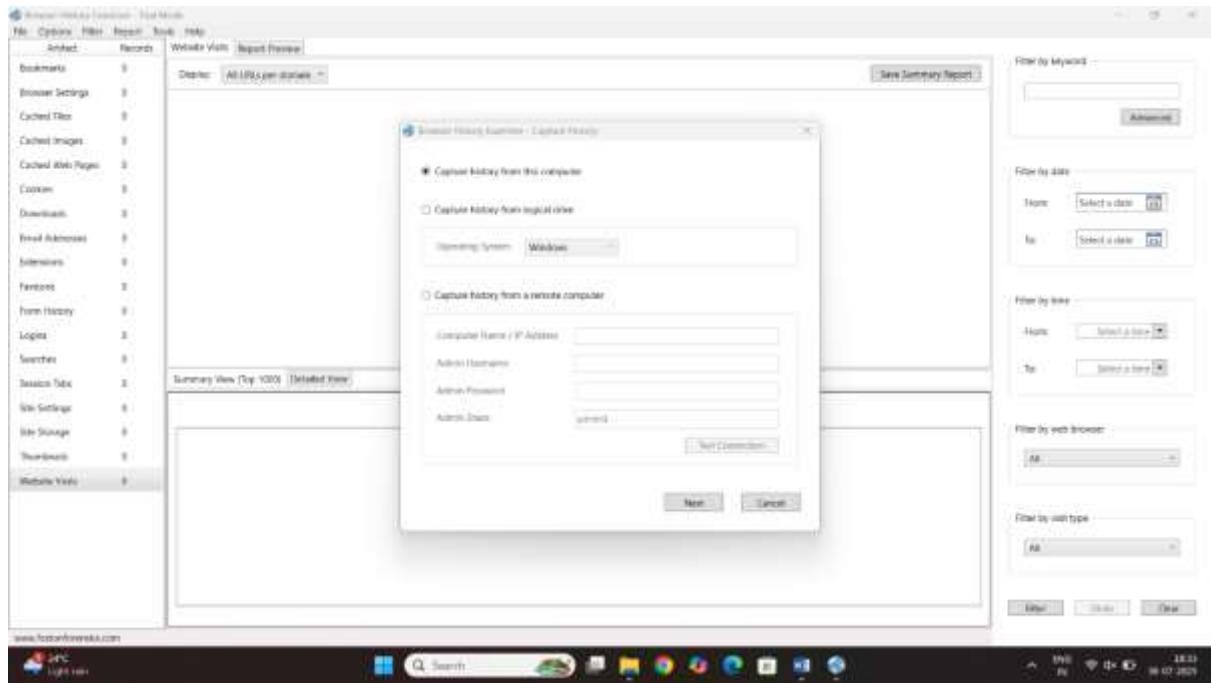
**Step1 start the application**



Step2 click on the capture history

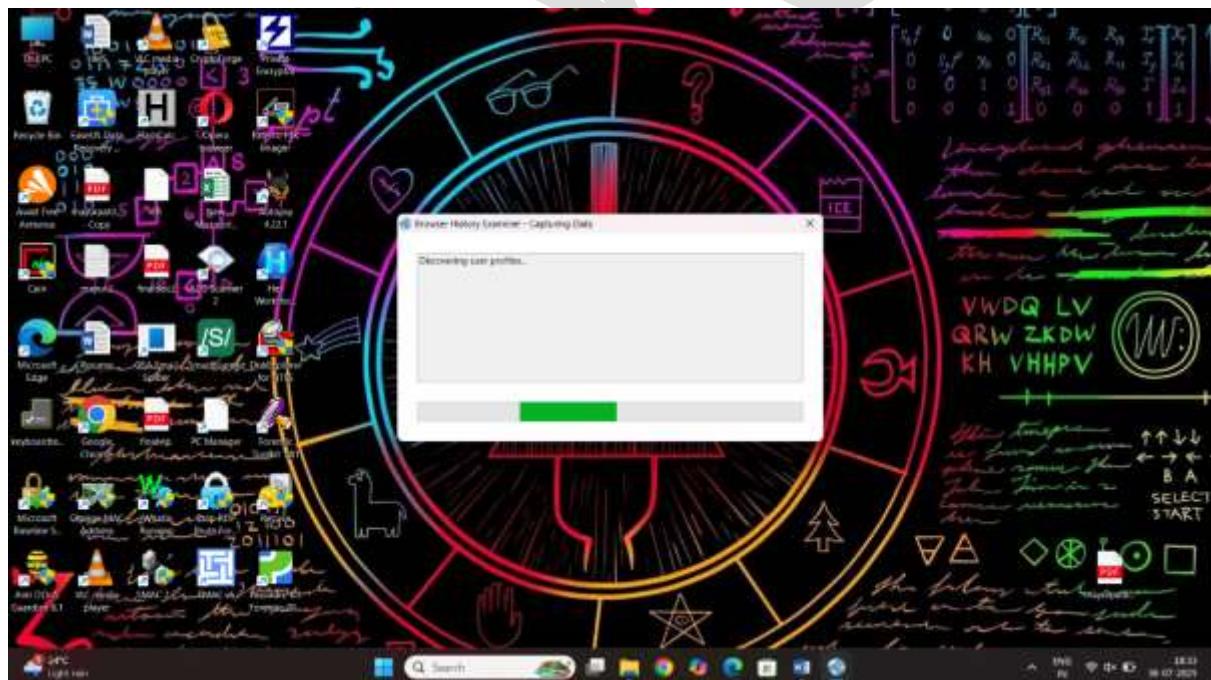


Step3 click capture history from this computer



Click on the next

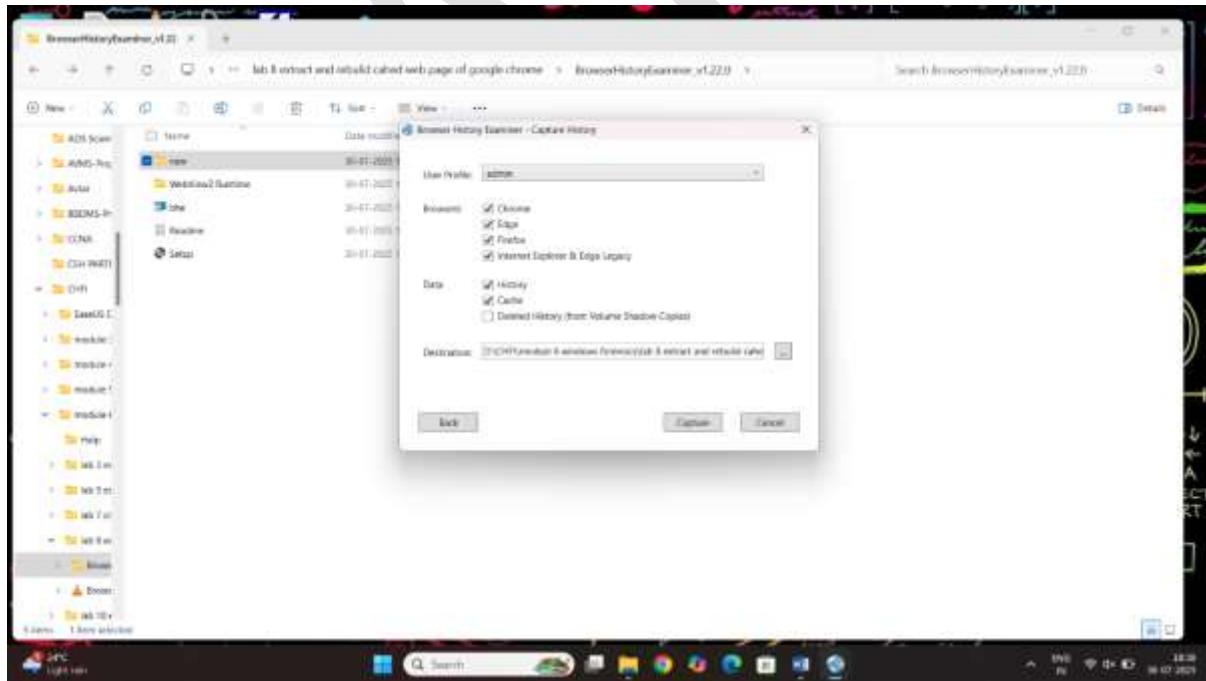
Step4 start the DB process



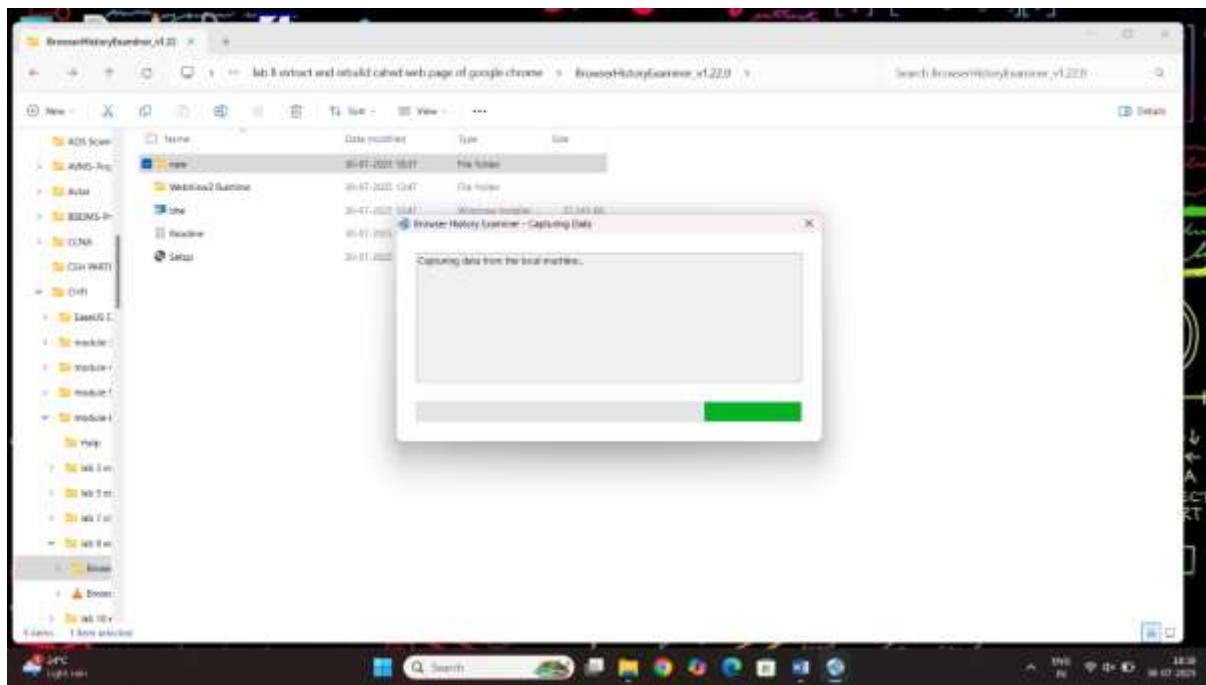
Click on the next



Step5 select the destination file



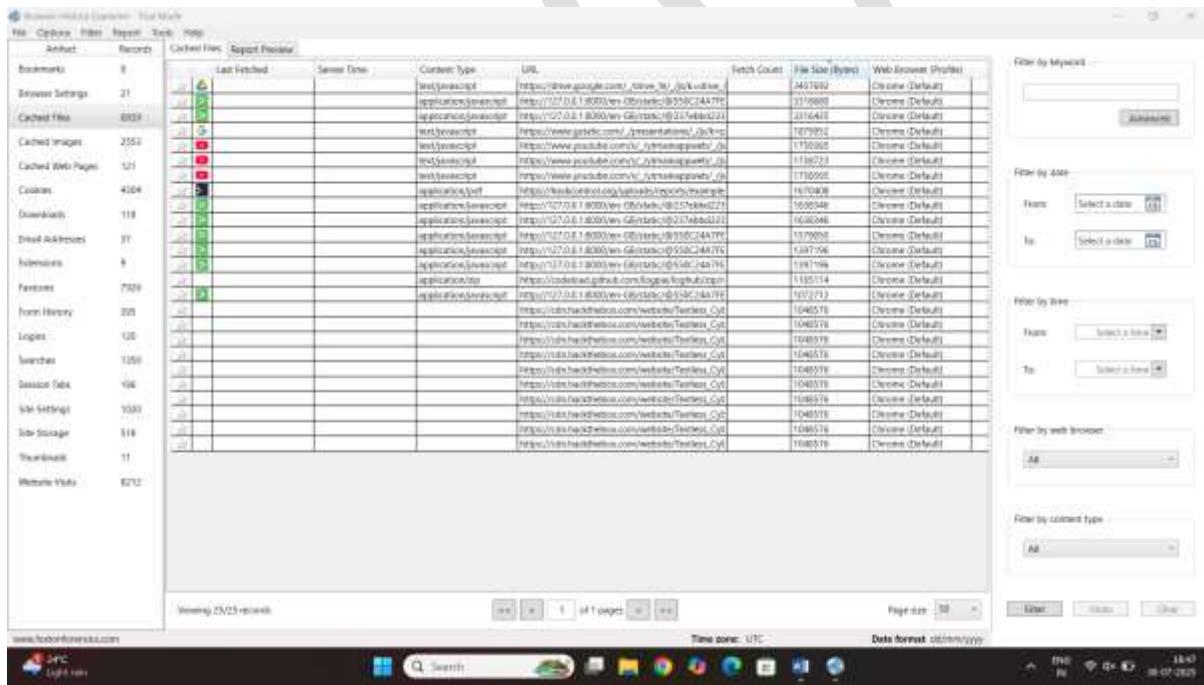
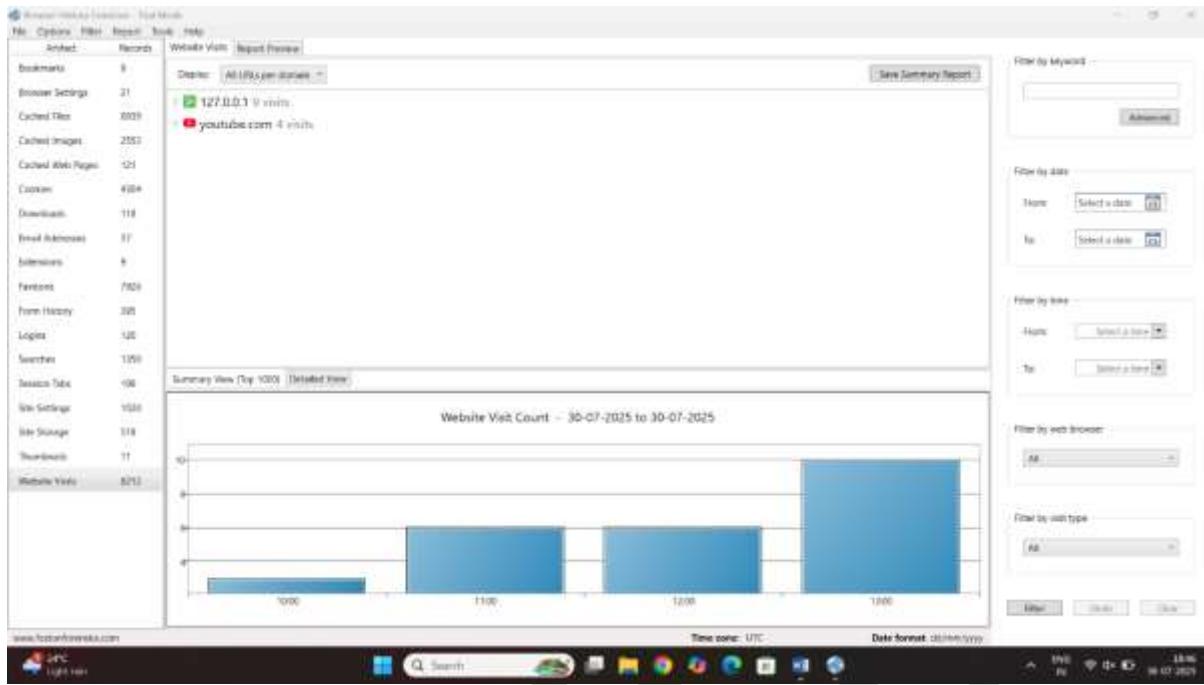
Click on the capture

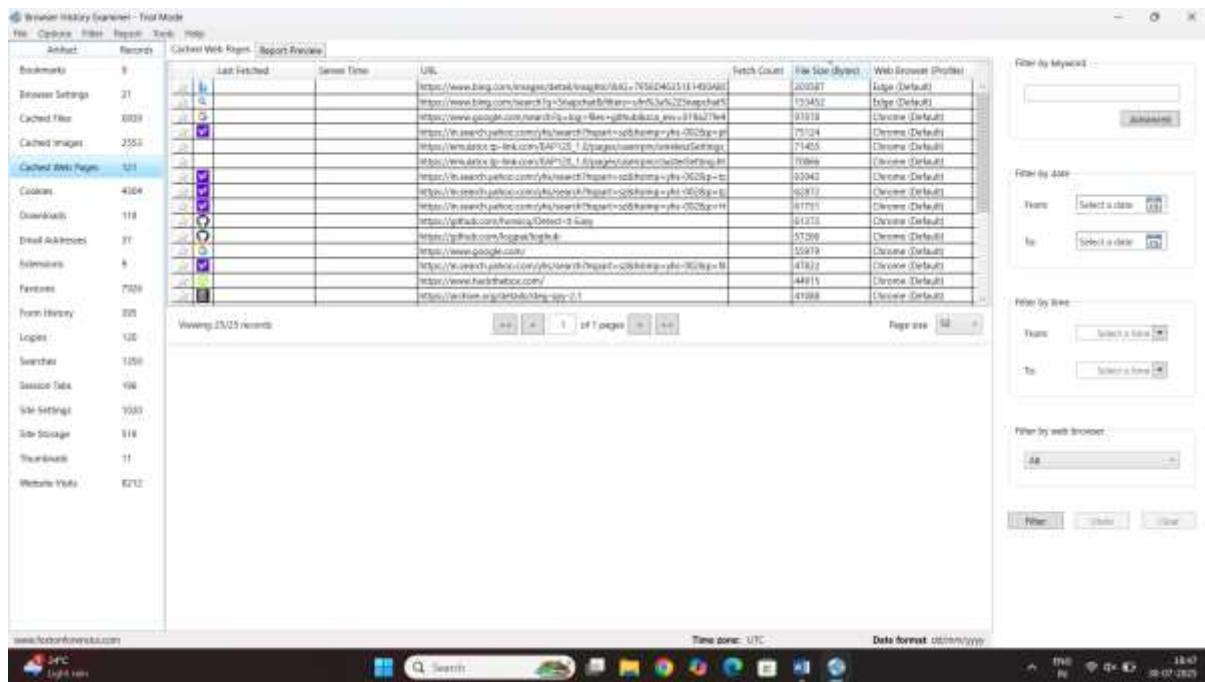


## Step6 Extracting data process on



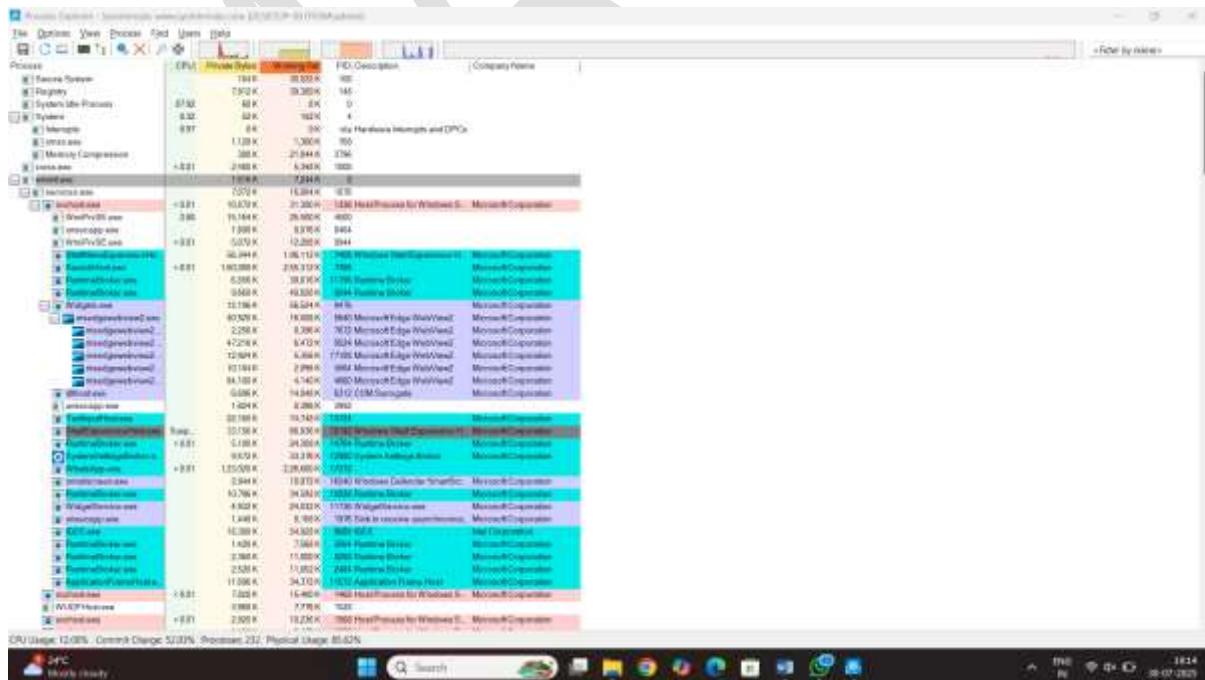
## Result:



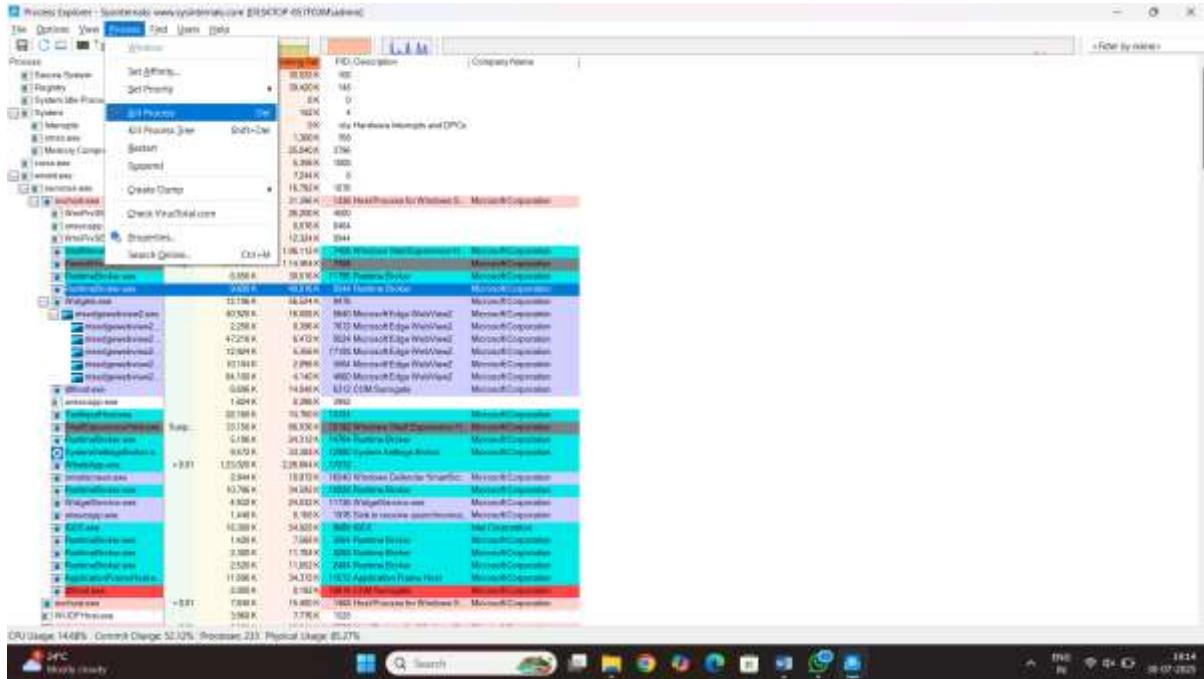


## Lab7 extract information about loaded process on a computer

Step1 start the application



## Step2 how to kill malicious process



Click on kill process

WAKYUR