SECURE CODING LAB-6 NISHANK VERMA SLOT-L39+L40 19BCN7131

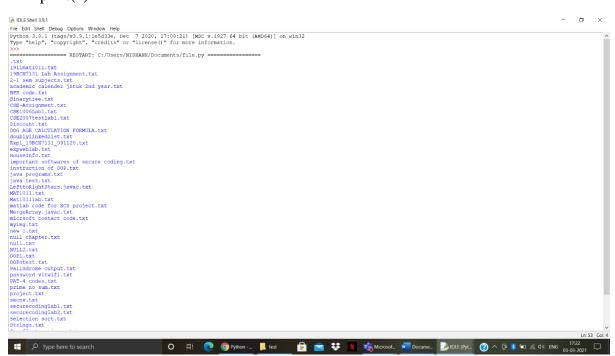
POWER SHELL AND AUTOMATION

Assignment:

1)Write a python script to get all the file names in the current directory import os

for x in os.listdir():
 if x.endswith(".txt"):

print(x)



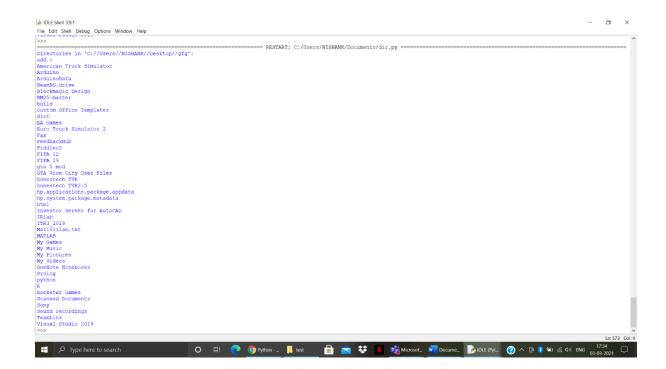
2) Write a python script to get all the directory names in the current directory

import os

for x in os.listdir():
 print(x)

3) Write a python script to get all the directory and subdirectory names in the current directory

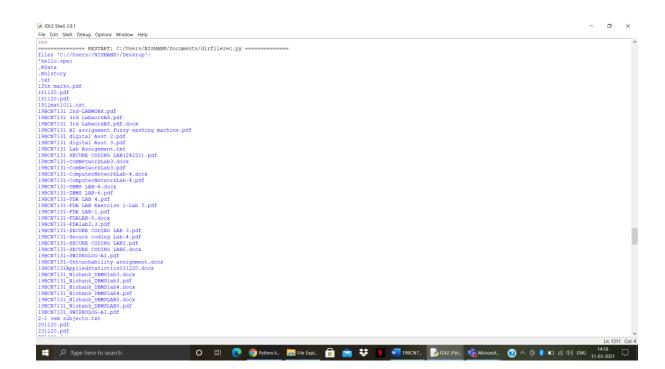
```
import os
path="C://Users//NISHANK//Desktop//gfg"
obj = os.scandir()
print("Directories in '% s':" % path)
for entry in obj:
   if entry.is_dir():
        print(entry.name)
```

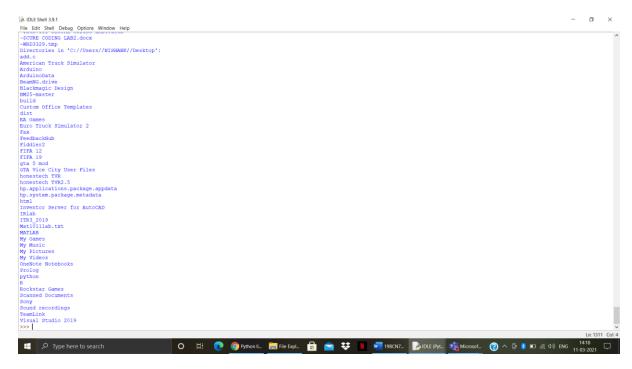


4) Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory

```
import os
path="C://Users//NISHANK//Desktop"
obj = os.scandir()
print("files '% s':" % path)
for entry in obj:
    if entry.is_file():
        print(entry.name)

obj = os.scandir()
print("Directories in '% s':" % path)
for entry in obj:
    if entry.is_dir():
        print(entry.name)
```

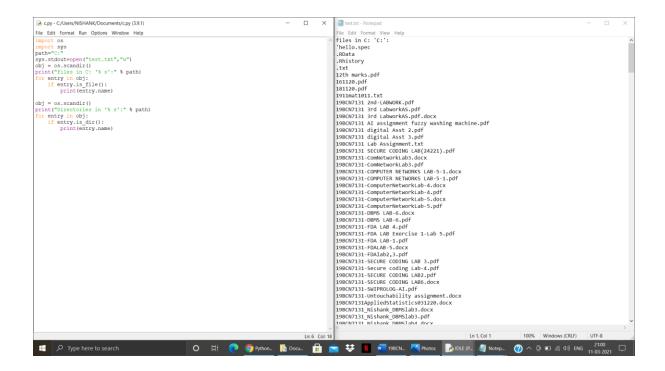




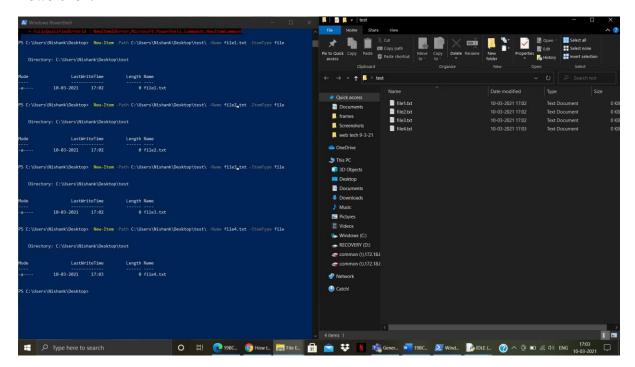
5) Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current drive and write it to a text file.

```
import os
import sys
path="C:"
sys.stdout=open("test.txt","w")
obj = os.scandir()
print("files in C: '% s':" % path)
for entry in obj:
    if entry.is_file():
        print(entry.name)

obj = os.scandir()
print("Directories in '% s':" % path)
for entry in obj:
    if entry.is_dir():
        print(entry.name)
```



6) Write a python script which creates four new files in the current directory using Powershell.



Get-Alias will list the preloaded Alias's and will show you what Cmdiet they are mapped to

PS C:\Users\NISHANK> Get-Alias

CommandType Name

Version Source

Alias % -> ForEach-Object

Alias ? -> Where-Object

Alias ac -> Add-Content

Alias asnp -> Add-PSSnapin

Alias cat -> Get-Content

Alias cd -> Set-Location

Alias CFS -> ConvertFrom-String

Alias chdir -> Set-Location

Alias clc -> Clear-Content

Alias clear -> Clear-Host

Alias clhy -> Clear-History

Alias cli -> Clear-Item

Alias clp -> Clear-ItemProperty

Alias cls -> Clear-Host

Alias clv -> Clear-Variable

Alias cnsn -> Connect-PSSession

Alias compare -> Compare-Object

Alias copy -> Copy-Item

Alias cp -> Copy-Item

Alias cpi -> Copy-Item

Alias cpp -> Copy-ItemProperty

Alias curl -> Invoke-WebRequest

Alias cvpa -> Convert-Path

Alias dbp -> Disable-PSBreakpoint

Alias del -> Remove-Item

Alias diff -> Compare-Object

Alias $dir \rightarrow Get$ -ChildItem

Alias dnsn -> Disconnect-PSSession

Alias ebp -> Enable-PSBreakpoint

Alias echo -> Write-Output

Alias epal -> Export-Alias

Alias epcsv -> Export-Csv

Alias epsn -> Export-PSSession

Alias erase -> Remove-Item

3.1.0.0 Microsoft.PowerShell.Utility

Alias etsn -> Enter-PSSession

Alias exsn -> Exit-PSSession

Alias fc -> Format-Custom

Alias fhx -> Format-Hex

 $3.1.0.0 \quad Microsoft. Power Shell. Utility$

Alias fl -> Format-List

Alias foreach -> ForEach-Object

Alias ft -> Format-Table

Alias fw -> Format-Wide

Alias gal -> Get-Alias

Alias gbp -> Get-PSBreakpoint

Alias gc -> Get-Content

Alias gci -> Get-ChildItem

Alias gcm -> Get-Command

Alias gcs -> Get-PSCallStack

Alias $gdr \rightarrow Get-PSDrive$

Alias ghy -> Get-History

Alias gi -> Get-Item

Alias gjb -> Get-Job

Alias gl -> Get-Location

Alias gmo -> Get-Module

Alias gp -> Get-ItemProperty

Alias gps -> Get-Process

Alias gpv -> Get-ItemPropertyValue

Alias group -> Group-Object

Alias gsn -> Get-PSSession

Alias gsnp -> Get-PSSnapin

Alias gsv -> Get-Service

Alias gu -> Get-Unique

Alias gv -> Get-Variable

Alias gwmi -> Get-WmiObject

Alias h -> Get-History

Alias history -> Get-History

Alias icm -> Invoke-Command

Alias iex -> Invoke-Expression

Alias ihy -> Invoke-History

Alias ii -> Invoke-Item

Alias ipal -> Import-Alias

Alias ipcsv -> Import-Csv

Alias ipmo -> Import-Module

Alias ipsn -> Import-PSSession

Alias irm -> Invoke-RestMethod

Alias ise -> powershell_ise.exe

 $Alias \qquad iwmi -> Invoke-WMIMethod$

 $Alias \hspace{1.5cm} iwr -> Invoke-WebRequest \\$

Alias kill -> Stop-Process

Alias lp -> Out-Printer

Alias ls -> Get-ChildItem

Alias man -> help

Alias md -> mkdir

Alias measure -> Measure-Object

Alias mi -> Move-Item

Alias mount -> New-PSDrive

Alias move -> Move-Item

Alias mp -> Move-ItemProperty

Alias mv -> Move-Item

Alias nal -> New-Alias

Alias ndr -> New-PSDrive

Alias ni -> New-Item

Alias nmo -> New-Module

Alias npssc -> New-PSSessionConfigurationFile

Alias nsn -> New-PSSession

Alias nv -> New-Variable

Alias ogv -> Out-GridView

Alias oh -> Out-Host

Alias popd -> Pop-Location

Alias ps -> Get-Process

Alias pushd -> Push-Location

Alias pwd -> Get-Location

Alias r -> Invoke-History

Alias rbp -> Remove-PSBreakpoint

Alias rcjb -> Receive-Job

Alias rcsn -> Receive-PSSession

Alias rd -> Remove-Item

Alias rdr -> Remove-PSDrive

Alias ren -> Rename-Item

Alias ri -> Remove-Item

Alias rjb -> Remove-Job

Alias rm -> Remove-Item

Alias rmdir -> Remove-Item

Alias rmo -> Remove-Module

Alias rni -> Rename-Item

Alias rnp -> Rename-ItemProperty

Alias rp -> Remove-ItemProperty

Alias rsn -> Remove-PSSession

Alias rsnp -> Remove-PSSnapin

Alias rujb -> Resume-Job

Alias rv -> Remove-Variable

Alias rvpa -> Resolve-Path

Alias rwmi -> Remove-WMIObject

Alias sajb -> Start-Job

Alias sal -> Set-Alias

Alias saps -> Start-Process

Alias sasv -> Start-Service

Alias sbp -> Set-PSBreakpoint

Alias sc -> Set-Content

Alias select -> Select-Object

Alias set -> Set-Variable

Alias shcm -> Show-Command

Alias si -> Set-Item

Alias sl -> Set-Location

Alias sleep -> Start-Sleep

Alias sls -> Select-String

Alias sort -> Sort-Object

Alias sp -> Set-ItemProperty

```
Alias spjb -> Stop-Job
```

$$Alias \hspace{1cm} spps -\!\!\!> Stop\text{-} Process$$

$$Alias \hspace{1cm} sujb \mathrel{->} Suspend\text{-}Job$$

Alias
$$trcm \rightarrow Trace-Command$$

Alias write -> Write-Output

Get-Process command

PS C:\Users\NISHANK> Get-Process

Handles	NP	M(K)	PM(K)	WS(K)	CPU(s)	Id SI ProcessName
285	18	7364	24608	2.63 37	720 1 Ap	plicationFrameHost
386	22	17536	20000	328.05	9904 0 a	udiodg
97	7	6220	4352	4060	0 conhos	st
97	7	6348	116	0.03 5840	1 conh	ost
275	14	4736	17192	2.75 64	152 1 cor	nhost
711	51	28648	57260	1.08 11	1044 1 C	ortana
813	25	1956	5200	728	0 csrss	
743	19	2768	6868	840	1 csrss	
571	18	30300	24524	74.14 7	7756 1 ct	fmon
329	15	3636	8520	4936	0 dasH	ost
307	16	4132	12968	839	2 0 Discs	SoftBusServiceLite
203	16	3328	10440	320	0 0 dllho	st
333	38	10188	18944	1.50 4	708 1 dll	host
165	10	3576	9720	5.69 65	56 1 dllh	ost

```
217
                     14192
                               9.63 8928 1 DTShellHlp
       13
             6092
1759
        45 116864
                       99676
                                     1376 \hspace{0.1in} 1 \hspace{0.1in} dwm
                     24840
                              203.19 8904 1 ETDCtrl
526
       20
            8196
1092
             2796
                               8.27 14976 1 ETDCtrlHelper
        10
                      9636
            1236
                                  4468 0 ETDService
110
        7
                     4968
                              0.02 11652 1 ETDTouch
122
        9
            2096
                     6932
                      185560 1,442.92 7316 1 explorer
4784
       140 152492
                    8256
       9
           4704
                                  332 1 fontdrvhost
 39
           3888
                                 1028 0 fontdrvhost
 32
       8
                    4756
564
       23
           45040
                     37984
                                    1364 \ \ 0 \ HP Support Solutions Framework Service
           67424
                     31312
                                    3520 \quad 0 \; IAStor Data Mgr Svc
427
       34
           1216
                                 4508 0 ibtsiva
 89
       6
                    4756
                    8
      0
            60
                                0 0 Idle
 0
                     12408
                               0.11 11660 1 IESettingSync
270
       12
            3568
            2044
                                   2000 \hspace{0.2cm} 0 \hspace{0.1cm} igfx CUI Service
174
       10
                     8376
                                  4608 \hspace{0.2cm} 0 \hspace{0.2cm} Intel CpHDCPSvc
            1624
                     7028
151
        8
        7
            1644
                     6704
                                  5184 0 IntelCpHeciSvc
139
            1300
                                  5176 0 jhi_service
136
       8
                     5676
       27
           12668
                     45500
                                2.41 12896 1 LockApp
553
           1208
                                  1000 0 LsaIso
       6
                    2644
 44
             9292
                     20816
1549
        27
                                    1008 0 lsass
         1208 212664
                                  2944 \hspace{0.1in} 0 \hspace{0.1in} \textbf{Memory Compression}
 0
366
       20
           40180
                     31840
                                    6496 0 MoUsoCoreWorker
470
       26
            9160
                     21876
                                   4520 0 nvcontainer
380
            30000
                     35120
                               21.13 13088 1 nvcontainer
       57
341
       27
            5536
                     16248
                                   2340 0 NVDisplay.Container
680
       30
            33080
                     37352
                                   12716 1 NVDisplay.Container
                               14.02 13996 1 NVIDIA Web Helper
560
       72
            35924
                      1436
256
            4940
                     13216
                                   4900 0 NvTelemetryContainer
       16
809
                     47156
                                    4908 \quad 0 \ Office Click To Run
       28
            36560
612
       58 770528
                     118548
                                     4700 \hspace{0.2cm} 0 \hspace{0.2cm} oracle
612
       30
            70692
                     83572
                                3.55 5676 1 powershell
252
       28
           24788
                     16416
                                    8672 0 PresentationFontCache
```

132 0 Registry

4588 0 RegSrvc

191	9	2240	7652	3136 0 RtkAudioService64
142	10	2412	8876	0.05 9988 1 rundll32
844	35	17076	46036	18.17 6924 1 RuntimeBroker
462	25	8316	29324	13.02 8388 1 RuntimeBroker
457	24	10464	34280	21.58 8644 1 RuntimeBroker
358	19	6572	25704	2.41 8720 1 RuntimeBroker
501	23	7840	29072	3.17 10056 1 RuntimeBroker
194	12	2960	15228	0.17 10416 1 RuntimeBroker
1868	155	215132	104060	72.86 9032 1 SearchApp
910	82	81008	63268	1276 0 SearchIndexer
0	0	184 2	2912	72 0 Secure System
398	17	4756	14972	10480 0 SecurityHealthService
814	12	6220	9196	956 0 services
654	31	14884	5412	12.52 1492 1 SettingSyncHost
116	7	7736	7600	4332 0 SgrmBroker
896	36	31304	58512	6.81 9936 1 ShellExperienceHost
761	26	13856	40368	22.14 2596 1 sihost
53	3	1092	1128	512 0 smss
506	29	6052	13500	3988 0 spoolsv
757	37	41500	87868	26.50 8356 1 StartMenuExperienceHost
222	12	2656	10900	664 0 svchost
1250	25	15932	34332	732 0 svchost
184	10	2296	7772	980 0 svchost
1427	22	11084	17208	1204 0 svchost
306	12	2880	8132	1268 0 svchost
150	24	5956	7136	1400 0 svchost
256	13	2640	9540	1484 0 svchost
334	10	2916	7152	1564 0 svchost
155	9	2068	11036	1572 0 svchost
299	10	2260	7876	1620 0 svchost
880	21	5668	19616	1640 0 svchost
181	9	1992	7396	1664 0 svchost
100	9	1256	4792	1792 0 svchost
436	13	14596	14692	1828 0 svchost
421	20	7520	15256	1872 0 svchost

245	16	38340	12012	1940 0 svchost
179	13	2048	7872	1976 0 svchost
288	10	2876	9544	2080 0 svchost
403	16	5216	9892	2180 0 svchost
443	12	3420	9128	2276 0 svchost
228	13	3292	11580	2392 0 svchost
309	11	3368	9652	2448 0 svchost
312	16	3904	8448	2476 0 svchost
250	15	103764	104188	2536 0 svchost
199	7	1316	5456	2544 0 svchost
166	7	1608	5616	2564 0 svchost
264	10	2236	7844	2652 0 svchost
145	11	1816	8420	2664 0 svchost
137	9	1596	6236	2816 0 svchost
441	32	11908	13404	2888 0 svchost
128	9	1444	5884	2964 0 svchost
184	11	2124	7564	3048 0 sychost
530	15	4604	18436	3088 0 svchost
151	10	1824	7812	3164 0 svchost
213	10	8260	15644	3172 0 svchost
123	8	1684	7564	3272 0 svchost
144	11	1896	6272	3368 0 svchost
387	16	3132	9548	3376 0 svchost
126	8	1552	6292	3448 0 svchost
530	25	7168	18188	3620 0 svchost
226	13	2536	9296	3636 0 svchost
514	24	16776	24652	28.58 3732 1 svchost
245	15	2956	13552	3868 0 svchost
199	11	2368	8580	3984 0 svchost
240	12	2484	9928	4164 0 svchost
569	28	23416	28816	$4172 \hspace{0.1in} 0 \hspace{0.1in} svchost$
232	10	2700	7912	4180 0 svchost
416	21	25936	29636	4188 0 svchost
324	30	6584	15608	4196 0 svchost
264	14	2796	7116	4212 0 svchost

436	15	7772	16236	4224 0 svchost
132	7	1296	5160	4232 0 svchost
132	9	1636	5640	4240 0 svchost
207	12	2488	8984	4248 0 svchost
315	14	4244	17332	4256 0 svchost
202	12	1788	6536	4268 0 svchost
239	17	2156	6488	4432 0 svchost
631	25	9752	37180	25.45 4580 1 svchost
369	17	2868	10052	4748 0 svchost
105	7	1332	4984	4812 0 svchost
326	17	4160	23680	8.75 4820 1 svchost
212	12	2396	8672	5136 0 svchost
393	25	3620	11816	5224 0 svchost
365	20	5732	21084	5748 0 svchost
590	74	22516	26640	6204 0 svchost
220	12	2796	10860	6396 0 svchost
198	13	3228	15812	6804 0 svchost
408	29	5380	19140	6932 0 svchost
248	11	2468	7852	6936 0 svchost
280	34	2316	9532	7048 0 svchost
232	13	3016	11576	7484 0 svchost
442	16	6696	14840	7504 0 svchost
353	20	6792	19652	3.36 7632 1 svchost
180	9	1844	7452	7704 0 svchost
383	15	5000	21424	7716 0 svchost
174	201	2364	6488	7960 0 svchost
332	16	4268	16216	8536 0 svchost
467	25	5504	18820	2.22 8584 1 svchost
289	20	3032	11964	8828 0 svchost
262	32	2332	12624	$10256 \hspace{0.2cm} 0 \hspace{0.1cm} svchost$
529	32	11208	19444	$11204 \hspace{0.2cm} 0 \hspace{0.1cm} svchost$
119	8	1460	6144	11228 0 sychost
111	7	1344	5352	11568 0 svchost
137	8	1668	6728	0.11 12052 1 svchost
149	9	1860	8668	0.05 13196 1 svchost

```
193
                    8960
                               13644 0 svchost
      15
           6420
197
           2052
                    8724
                               14672 0 svchost
       11
       0
4609
            224
                  14124
                                 4 0 System
      27
           8800
                   29500
                            4.94\ 12804\ 1\, System Settings Broker
571
                            6.81 13860 1 TabTip
315
       16
           4048
                   15772
305
      63 16400
                    25856
                            11.05 7348 1 taskhostw
      19
            6056
                   17624
                            1.22 15244 1 taskhostw
352
      190 418084
                    472952
519
                            267.80 436 1 Teams
      121 \quad 243924
                    302800
                            159.53 6416 1 Teams
514
494
      29 18708
                    44164
                            14.11 \quad 7224 \quad 1 \; Teams
322
      26 27108
                    48832
                             0.45 9180 1 Teams
1524
                             455.67 10400 1 Teams
       64 190164
                    178696
      20 11564
                    58260
                             0.77 12960 1 Teams
333
       68 174868
1189
                    139840
                              64.31 13304 1 Teams
       36 \ 505776
                             181.27 14244 1 Teams
1217
                    402456
      104 \ \ 205444
                    233576
                             206.86 14332 1 Teams
397
          23840
                             0.17 15248 1 Teams
305
      22
                    77292
                    42600
                            13.67 9124 1 TextInputHost
557
      23 11544
 99
       7 1216
                  4728
                              4528 \hspace{0.1in} 0 \hspace{0.1in} tmGAInstall \\
                                4564 0 TNSLSNR
256
      25 16348
                   13704
133
       9
           2148
                   7736
                               5632 0 unsecapp
                    8932
                            0.98\ 14432\ 1\ UserOOBEBroker
133
      10
           2168
                                832 	ext{ 0 wininit}
170
           1472
                    6056
      11
292
           3120
                   12320
                                904 1 winlogon
       14
                             65.02 12064 1 WINWORD
1253
           68360
                   161284
       53
411
       19
           5304
                   16228
                                4044 0 wlanext
233
      14
           4292
                   12332
                                5996 0 WmiPrvSE
           4284
                   10856
                                824 0 WUDFHost
316
      14
602
       18
           7740
                   10824
                                1136 0 WUDFHost
                   18728\ \ 1{,}205.83\ \ 9312\ \ 1\ xampp\text{-control}
287
      18
           7416
349
      20
           5572
                   17416
                                4620 0 ZeroConfigService
```

Piping-One of the time savers in power Shell is giving the user the ability to pip commands together:

$PS\ C: \ \ Vsers \ \ \ NISHANK > Get-process\ \ |\ \ select\ Process Name,\ ID\ \ |\ \ Sort\ Process Name\ \ |\ \ FL$

 ${\bf Process Name: Application Frame Host}$ Id : 3720 ${\bf Process Name: audiodg}$ \mathbf{Id} : 9904 ${\bf Process Name: conhost}$ Id : 6452 ${\bf Process Name: conhost}$ Id : 5840 ${\bf Process Name: conhost}$ \mathbf{Id} : 4060 ${\bf Process Name: Cortana}$ Id : 11044 ${\bf ProcessName:csrss}$ Id : 840 ${\bf ProcessName:csrss}$ Id : 728 ${\bf ProcessName:ctfmon}$ Id : 7756 ${\bf Process Name: das Host}$: 4936 Id

 ${\bf Process Name: Disc Soft Bus Service Lite}$

 ${\bf Process Name: dllhost}$

Id : 6556

 ${\bf Process Name: dllhost}$

Id : 4708

 ${\bf Process Name: dllhost}$

Id : 3200

Process Name: DTS hell Hlp

Id : 8928

 ${\bf ProcessName:dwm}$

Id : 1376

 ${\bf ProcessName:ETDCtrl}$

Id: 8904

 ${\bf Process Name: ETDCtrl Helper}$

Id : 14976

 ${\bf ProcessName:ETDService}$

Id : 4468

 ${\bf Process Name: ETD Touch}$

Id : 11652

 ${\bf Process Name: explorer}$

Id : 7316

 ${\bf Process Name: font drvhost}$

Id : 1028

 ${\bf Process Name: font drvhost}$

 ${\bf Process Name: HP Support Solutions Framework Service}$

Id: 1364

Process Name: IA Stor Data Mgr Svc

Id : 3520

ProcessName: ibtsiva

Id : 4508

 ${\bf ProcessName:Idle}$

 $Id \qquad :0$

 ${\bf Process Name: IE Setting Sync}$

Id : 11660

 ${\bf Process Name: igfxCUIS ervice}$

Id : 2000

 ${\bf ProcessName:IntelCpHDCPSvc}$

Id : 4608

 ${\bf ProcessName:IntelCpHeciSvc}$

Id : 5184

 $ProcessName: jhi_service$

Id : 5176

ProcessName:LockApp

Id : 12896

 ${\bf ProcessName: LsaIso}$

Id : 1000

 ${\bf Process Name: lsass}$

Id : 1008

 ${\bf ProcessName: Memory\ Compression}$

Id : 2944

 ${\bf Process Name: MoUsoCoreWorker}$

Id : 6496

 ${\bf Process Name: nvcontainer}$

Id : 13088

 ${\bf Process Name: nvcontainer}$

Id : 4520

 ${\bf Process Name: NVD is play. Container}$

Id : 12716

 ${\bf Process Name: NVD is play. Container}$

Id : 2340

 ${\bf ProcessName: NVIDIA\ Web\ Helper}$

Id : 13996

 ${\bf Process Name: NvTelemetry Container}$

Id : 4900

Process Name: Office Click To Run

Id : 4908

 ${\bf Process Name: oracle}$

Id : 4700

 ${\bf Process Name: powershell}$

 ${\bf Process Name: Presentation Font Cache}$

Id : 8672

 ${\bf ProcessName: Registry}$

Id : 132

 ${\bf ProcessName: RegSrvc}$

Id : 4588

 ${\bf Process Name: Rtk Audio Service 64}$

Id : 3136

 ${\bf Process Name: rundll 32}$

Id : 9988

 ${\bf Process Name: Runtime Broker}$

Id: 8720

 ${\bf Process Name: Runtime Broker}$

Id : 10056

 ${\bf Process Name: Runtime Broker}$

Id : 10416

 ${\bf Process Name: Runtime Broker}$

Id : 6924

 ${\bf Process Name: Runtime Broker}$

Id : 8388

 ${\bf Process Name: Runtime Broker}$

Id: 8644

 ${\bf ProcessName: Search App}$

 ${\bf Process Name: Search Index er}$

Id : 1276

 ${\bf ProcessName: Secure\ System}$

Id : 72

 ${\bf Process Name: Security Health Service}$

Id : 10480

 ${\bf Process Name: services}$

Id : 956

 ${\bf Process Name: Setting Sync Host}$

Id : 1492

 ${\bf Process Name: SgrmBroker}$

Id : 4332

 ${\bf Process Name: Shell Experience Host}$

Id : 9936

 ${\bf ProcessName: sihost}$

Id : 2596

ProcessName: smss

Id : 512

 ${\bf ProcessName: spoolsv}$

Id : 3988

 ${\bf Process Name: Start Menu Experience Host}$

Id : 8356

 ${\bf ProcessName: svchost}$

 $\mathbf{Id} \qquad : 4748$

Process Name: svchost

Id : 4812

 ${\bf ProcessName: svchost}$

Id : 4580

 ${\bf ProcessName: svchost}$

 $\mathbf{Id} \qquad : 4268$

Process Name: svchost

Id : 4432

 ${\bf ProcessName: svchost}$

Id : 5748

Process Name: svchost

Id : 6204

 ${\bf Process Name: svchost}$

Id : 5224

 ${\bf ProcessName: svchost}$

 $\mathbf{Id} \qquad : 4820$

Process Name: svchost

Id : 5136

 ${\bf ProcessName: svchost}$

Id : 4256

ProcessName: svchost

 ${\bf ProcessName: svchost}$

Id : 4196

 ${\bf ProcessName: svchost}$

Id : 4180

 ${\bf Process Name: svchost}$

Id : 4164

 ${\bf ProcessName: svchost}$

Id : 4172

 ${\bf Process Name: svchost}$

Id : 4240

Process Name: svchost

Id : 4248

 ${\bf ProcessName: svchost}$

 $\mathbf{Id} \qquad : 4232$

 ${\bf Process Name: svchost}$

Id : 4212

 ${\bf ProcessName: svchost}$

Id : 4224

 ${\bf Process Name: svchost}$

Id : 6396

 ${\bf Process Name: svchost}$

Id : 11204

 ${\bf Process Name: svchost}$

 ${\bf Process Name: svchost}$

Id : 10256

 ${\bf ProcessName: svchost}$

Id : 8584

Process Name: svchost

Id : 8828

 ${\bf ProcessName: svchost}$

Id : 13644

 ${\bf ProcessName: svchost}$

Id : 14672

 ${\bf Process Name: svchost}$

Id : 13196

 ${\bf ProcessName: svchost}$

Id : 11568

Process Name: svchost

Id : 12052

Process Name: svchost

Id : 8536

 ${\bf ProcessName: svchost}$

 $\mathbf{Id} \qquad : 7048$

ProcessName: svchost

Id : 7484

ProcessName: svchost

Id : 6936

 ${\bf Process Name: svchost}$

Id : 6804

 ${\bf ProcessName: svchost}$

Id : 6932

 ${\bf ProcessName: svchost}$

Id : 7716

Process Name: svchost

Id : 7960

 ${\bf ProcessName: svchost}$

Id : 7704

Process Name: svchost

Id : 7504

ProcessName : svchost

Id : 7632

 ${\bf Process Name: svchost}$

Id : 3984

Process Name: svchost

Id : 1872

 ${\bf Process Name: svchost}$

Id : 1940

ProcessName: svchost

 ${\bf ProcessName: svchost}$

Id : 1664

 ${\bf ProcessName: svchost}$

Id : 1792

 ${\bf Process Name: svchost}$

Id : 2276

 ${\bf ProcessName: svchost}$

Id : 2392

 ${\bf Process Name: svchost}$

Id : 2180

Process Name: svchost

Id : 1976

 ${\bf ProcessName: svchost}$

Id : 2080

 ${\bf Process Name: svchost}$

Id : 1640

 ${\bf ProcessName: svchost}$

Id : 1204

 ${\bf Process Name: svchost}$

Id : 1268

 ${\bf ProcessName: svchost}$

Id: 980

 ${\bf Process Name: svchost}$

Process Name: svchost

Id: 732

 ${\bf ProcessName: svchost}$

Id : 1572

Process Name: svchost

Id : 1620

 ${\bf ProcessName: svchost}$

Id : 1564

 ${\bf ProcessName: svchost}$

Id : 1400

Process Name: svchost

Id : 1484

 ${\bf ProcessName: svchost}$

Id : 2448

 ${\bf Process Name: svchost}$

Id : 3368

Process Name: svchost

Id : 3376

 ${\bf Process Name: svchost}$

Id : 3272

ProcessName: svchost

Id : 3164

ProcessName: svchost

Id : 3172

Process Name: svchost

Id : 3732

 ${\bf ProcessName: svchost}$

Id : 3868

 ${\bf ProcessName: svchost}$

Id : 3636

Process Name: svchost

Id : 3448

 ${\bf ProcessName: svchost}$

Id : 3620

Process Name: svchost

Id : 3088

 ${\bf Process Name: svchost}$

Id : 2564

Process Name: svchost

 $\mathbf{Id} \qquad : 2652$

Process Name: svchost

Id : 2544

 ${\bf Process Name: svchost}$

Id : 2476

ProcessName: svchost

 ${\bf ProcessName: svchost}$

Id : 2964

 ${\bf ProcessName: svchost}$

Id : 3048

Process Name: svchost

Id : 2888

 ${\bf ProcessName: svchost}$

Id : 2664

 ${\bf Process Name: svchost}$

Id : 2816

 ${\bf ProcessName: System}$

Id : 4

 ${\bf Process Name: System Settings Broker}$

Id : 12804

 ${\bf ProcessName:TabTip}$

Id : 13860

Process Name: task hostw

Id : 15244

 ${\bf ProcessName: task hostw}$

Id : 7348

 ${\bf Process Name: Teams}$

Id : 13304

 ${\bf Process Name: Teams}$

 ${\bf Process Name: Teams}$

Id : 14244

 ${\bf Process Name: Teams}$

Id : 15248

ProcessName : Teams

Id : 14332

 ${\bf Process Name: Teams}$

Id : 6416

 ${\bf Process Name: Teams}$

Id : 436

 ${\bf Process Name: Teams}$

Id : 7224

 ${\bf Process Name: Teams}$

Id : 10400

ProcessName : Teams

Id : 9180

 ${\bf Process Name: Text Input Host}$

Id : 9124

 ${\bf Process Name: tmGAInstall}$

Id : 4528

 ${\bf ProcessName:TNSLSNR}$

Id : 4564

 ${\bf ProcessName: unsecapp}$

Id : 5632

 ${\bf ProcessName: User OOBE Broker}$

Id : 14432

 ${\bf Process Name: wininit}$

Id: 832

 ${\bf Process Name: winlog on}$

Id : 904

 ${\bf ProcessName:WINWORD}$

Id : 12064

 ${\bf ProcessName: wlanext}$

Id : 4044

ProcessName: WmiPrvSE

Id : 5996

 ${\bf ProcessName: WUDFHost}$

Id : 1136

 ${\bf ProcessName: WUDFHost}$

Id : 824

 ${\bf Process Name: xampp\text{-}control}$

Id : 9312

 ${\bf Process Name: Zero Config Service}$

Id : 4620

Pull computer serial number

PS C:\Users\NISHANK> Gwmi Win32_Bios | select SerialNumber

```
Serial Number \\
-----
5CD8080G0Z
Reboot a machine
(Gwmi\ win 32\_Operating System\ -comp\ |\ server).reboot()
Gather Logical Disk Space information
PS C:\Users\NISHANK> Gwmi Win32_LogicalDisk
DeviceID : C:
DriveType : 3
{\bf Provider Name:}
{\bf Free Space} \quad : 1055100841984
Size
        : 1981152227328
VolumeName : Windows
DeviceID : D:
DriveType : 3
{\bf Provider Name:}
FreeSpace : 2099453952
Size
        : 17922256896
VolumeName : RECOVERY
DeviceID : E:
DriveType : 5
{\bf Provider Name:}
```

Show running processes

 $Free Space \ :$

:

VolumeName :

Size

Show Network Adapters

 $PS\ C: \ \ Win 32_Network Adapter Configuration\ |\ where \{\$_. IPEnabled\ -eq\ "TRUE"\}$

PS C:\Users\NISHANK> \$NIC

DHCPEnabled : True

 $IPAddress : \{192.168.1.6, fe80:: 49c8: 728e: e6c1: 54e4\}$

 $DefaultIPGateway: \{192.168.1.1\}$

DNSDomain :

ServiceName : Netwtw04

Description : Intel(R) Dual Band Wireless-AC 7265

Index : 2

DHCPEnabled : False

 $IPAddress \qquad : \{192.168.56.1, fe80::84b7:924e:f036:b859\}$

Default IP Gateway:

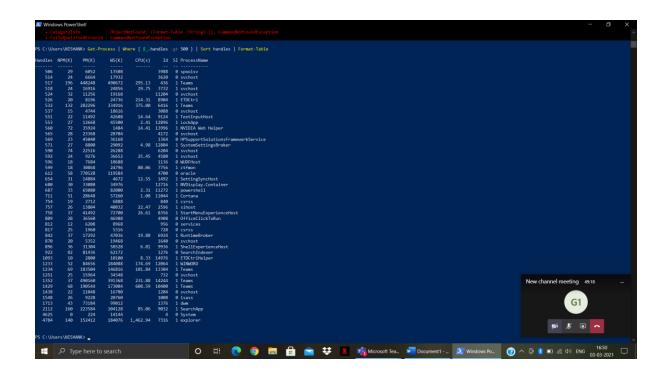
DNSDomain

 $ServiceName \quad : VBoxNetAdp$

 $Description \quad : Virtual Box\ Host-Only\ Ethernet\ Adapter$

Index : 14

Process



Find the processes in the memory

PS C:\Users\NISHANK> ps

Handles	NF	PM(K)	PM(K)	$WS(K) CPU(s) Id \ SI \ ProcessName$
287	18	7392	24756	2.63 3720 1 ApplicationFrameHost
388	22	17828	20408	469.73 9904 0 audiodg
97	7	6220	4352	4060 0 conhost
97	7	6348	116	0.03 5840 1 conhost
273	14	5808	17916	2.70 6720 1 conhost
711	51	28648	57260	1.08 11044 1 Cortana
823	26	1960	5324	728 0 csrss
760	19	2716	6892	840 1 csrss
605	18	30888	24884	81.05 7756 1 ctfmon
329	15	3636	8612	4936 0 dasHost
307	16	4132	12836	8392 0 DiscSoftBusServiceLite
203	16	3328	10144	3200 0 dllhost
345	40	10892	19496	2.38 4708 1 dllhost
176	10	3788	14184	5.86 6556 1 dllhost

```
217
            6092
                     13676
                               9.63 8928 1 DTShellHlp
       13
                                    1376 1 dwm
1706
            73664
                      99736
        43
                     24736
                              215.77 8904 1 ETDCtrl
526
       20
            8196
1105
             2800
                     10120
                               8.55 14976 1 ETDCtrlHelper
        10
            1236
                                  4468 0 ETDService
110
        7
                     4968
                              0.02 11652 1 ETDTouch
122
        9
            2096
                     6932
                      201528 \ \ 1,470.75 \ \ 7316 \ \ 1 \ explorer
5179
       152 159400
                    8140
 39
       8
           5120
                                  332 1 fontdrvhost
           3888
                                 1028 0 fontdrvhost
 32
       8
                    4756
569
       23
           45040
                     36168
                                   1364 \>\>\> 0\>\> HP Support Solutions Framework Service
           67424
                     30672
                                    3520 \quad 0 \; IA Stor Data Mgr Svc
427
       34
           1216
                    4392
                                 4508 0 ibtsiva
 89
       6
                    8
      0
            60
                               0 0 Idle
 0
                    11956
                               0.11 11660 1 IESettingSync
270
       12
            3568
                     8176
                                   2000 0 igfxCUIService
174
       10
            2044
                                  4608 \hspace{0.2cm} 0 \hspace{0.2cm} IntelCpHDCPSvc
            1624
                     6756
151
        8
        7
            1644
                                  5184 \quad 0 \; Intel CpHeci Svc
139
                     6432
            1300
                     5676
                                  5176 0 jhi_service
136
       8
       27
           12668
                     45500
                               2.41 12896 1 LockApp
553
           1208
                                 1000 0 LsaIso
       6
                    2644
 44
             9232
        26
                     20976
                                    1008 \quad 0 \text{ lsass}
1559
         1212 \quad 273248
                                  2944 \hspace{0.1in} 0 \hspace{0.1in} \textbf{Memory Compression}
 0
353
       20
           40440
                     31968
                                   6496 \quad 0 \; MoUsoCoreWorker
468
       26
            9132
                     21796
                                   4520 0 nvcontainer
            29780
                     34960
                               21.34 13088 1 nvcontainer
372
       56
341
       27
            5536
                     15716
                                   2340 0 NVDisplay.Container
680
       30
            33080
                     34976
                                   12716 1 NVDisplay.Container
                              14.50\ 13996\ 1\ NVIDIA\ Web\ Helper
560
       72
            35924
                      1484
245
            4712
                     13120
                                   4900 0 NvTelemetryContainer
       16
809
                     47044
                                    4908 0 OfficeClickToRun
       28
            36560
612
       58 770528
                     119584
                                     4700 \hspace{0.2cm} 0 \hspace{0.2cm} oracle
                     85024
                               2.78 11272 1 powershell
769
       33
           67360
           24788
252
       28
                     16416
                                   8672 0 PresentationFontCache
 0
      18
           8776
                    57116
                                  132 0 Registry
```

4588 0 RegSrvc

191	9	2240	7608	3136 0 RtkAudioService64
142	10	2412	8572	0.05 9988 1 rundll32
842	37	17292	47044	19.89 6924 1 RuntimeBroker
431	24	7568	28396	13.38 8388 1 RuntimeBroker
453	24	10328	34044	21.64 8644 1 RuntimeBroker
358	19	6556	25316	2.44 8720 1 RuntimeBroker
496	22	7700	29020	3.20 10056 1 RuntimeBroker
194	12	2960	15236	0.17 10416 1 RuntimeBroker
2112	160	223584	104128	3 85.06 9032 1 SearchApp
177	10	1992	9180	11564 0 SearchFilterHost
943	82	82912	63620	1276 0 SearchIndexer
365	13	2572	13972	12020 0 SearchProtocolHost
0	0	184 2	2912	72 0 Secure System
398	17	4756	14948	10480 0 SecurityHealthService
812	12	6268	8996	956 0 services
654	31	14884	5444	12.56 1492 1 SettingSyncHost
116	7	7296	7292	$4332 0 \; \mathrm{SgrmBroker}$
896	36	31304	58528	6.81 9936 1 ShellExperienceHost
757	26	13804	40080	22.50 2596 1 sihost
410	23	8256	23964	0.30 3664 1 smartscreen
53	3	1092	1128	512 0 smss
506	29	6052	13516	3988 0 spoolsv
758	37	41496	72708	26.63 8356 1 StartMenuExperienceHost
355	13	3420	12652	664 0 svchost
1245	25	15912	34328	732 0 svchost
177	10	2132	7732	980 0 svchost
1444	22	11052	16900	1204 0 svchost
306	12	2888	8116	1268 0 svchost
151	25	5952	6636	1400 0 svchost
256	13	2640	9252	1484 0 svchost
332	10	2852	7056	1564 0 svchost
155	9	2068	10808	1572 0 svchost
299	10	2260	7728	1620 0 svchost
870	20	5352	19468	1640 0 svchost
181	9	1992	6924	1664 0 svchost

100	9	1256	4792	1792 0 svchost
434	13	14104	13852	1828 0 svchost
417	19	7448	15716	1872 0 svchost
247	16	38396	13216	1940 0 svchost
179	13	2048	7516	1976 0 svchost
289	10	2920	9616	2080 0 svchost
403	16	5216	9320	2180 0 svchost
434	12	3360	9080	2276 0 svchost
219	13	3064	11504	2392 0 svchost
309	11	3364	9584	2448 0 svchost
310	17	4036	8632	2476 0 svchost
246	15	109744	110276	2536 0 svchost
201	7	1316	5456	2544 0 svchost
166	7	1608	5588	2564 0 svchost
264	10	2236	7592	2652 0 svchost
145	11	1792	8448	2664 0 svchost
137	9	1596	6236	2816 0 svchost
439	32	11848	13376	2888 0 svchost
128	9	1444	5884	2964 0 svchost
187	11	2144	7596	$3048 ext{ 0 sychost}$
534	15	4692	18604	3088 0 svchost
151	10	1824	7484	3164 0 sychost
237	11	15104	23124	3172 0 svchost
142	11	1812	6232	$3368 ext{ 0 sychost}$
383	15	2820	9380	3376 0 sychost
126	8	1552	6292	3448 0 svchost
514	24	6660	17928	$3620 ext{ 0 sychost}$
230	13	2704	9328	3636 0 sychost
518	24	16924	24880	29.86 3732 1 svchost
245	15	2956	13492	$3868 ext{ 0 sychost}$
200	11	2440	8648	3984 0 svchost
240	12	2484	9564	4164 0 svchost
565	28	23344	28804	4172 0 svchost
232	10	2716	7908	4180 0 svchost
417	21	26052	28268	4188 0 svchost

320	29	6520	15044	4196 0 svchost
264	14	2796	6856	4212 0 svchost
452	15	8392	17352	4224 0 svchost
132	7	1296	5212	4232 0 svchost
132	9	1636	5640	4240 0 svchost
207	12	2488	8548	4248 0 svchost
315	14	4244	16540	4256 0 svchost
202	12	1788	6328	4268 0 svchost
239	17	2156	6104	4432 0 svchost
592	24	9224	36640	25.45 4580 1 sychost
369	17	2920	9800	4748 0 svchost
105	7	1332	4892	4812 0 svchost
330	17	4256	23744	9.22 4820 1 svchost
210	12	2420	8772	5136 0 svchost
393	25	3620	11732	5224 0 svchost
368	19	5676	20972	5748 0 svchost
586	74	22460	26308	6204 0 svchost
220	12	2796	10896	6396 0 svchost
197	13	3260	15824	6804 0 svchost
412	30	5448	19108	6932 0 svchost
248	11	2468	7780	6936 0 svchost
280	34	2316	9484	7048 0 svchost
232	13	3016	11524	7484 0 svchost
441	15	6588	14388	7504 0 svchost
353	20	6792	19484	3.38 7632 1 svchost
180	9	1844	7484	7704 0 svchost
364	14	4604	17436	7716 0 svchost
174	201	2364	6360	7960 0 svchost
329	16	4188	16128	8536 0 svchost
467	25	5504	18416	2.22 8584 1 svchost
289	20	3048	11968	8828 0 svchost
262	32	2332	12392	10256 0 svchost
524	32	11256	19168	11204 0 svchost
134	9	1620	6800	11228 0 svchost
111	7	1344	5248	11568 0 svchost

```
137 \quad \  \  8 \quad 1668 \quad \  \  6740 \quad \  \  0.11 \ 12052 \ \ 1 \ svchost
```

- 149 9 1860 8428 0.05 13196 1 svchost
- 193 15 6420 8960 13644 0 svchost
- 197 11 2052 8396 14672 0 svchost
- 168 9 1796 7364 15648 0 svchost
- 4673 0 224 14144 4 0 System
- $571 \quad 27 \quad 8800 \quad 29092 \quad 4.98 \ 12804 \ 1 \ System Settings Broker$
- $321 \quad 17 \quad 4112 \quad 16052 \quad 8.00 \ 13860 \ 1 \ Tab Tip$
- 308 63 16512 26456 11.30 7348 1 taskhostw
- 367 21 6276 18336 1.25 15244 1 taskhostw
- $520 \quad 196 \quad 448304 \quad 491064 \quad 296.31 \quad 436 \quad 1 \; Teams$
- 304 22 23496 77236 0.05 5776 1 Teams
- 535 135 287068 344096 398.56 6416 1 Teams
- 496 29 18644 43980 22.55 7224 1 Teams
- $322 \quad 26 \quad 27108 \quad 48724 \quad 0.45 \quad 9180 \quad 1 \; Teams$
- 327 26 31688 85952 1.02 9624 1 Teams
- 1447 65 190800 173724 622.73 10400 1 Teams
- 336 21 11600 58252 0.78 12960 1 Teams
- 1234 69 183536 146704 106.31 13304 1 Teams
- $1354 \quad \ \ 38 \quad 504192 \quad \ \ 405548 \quad \ \ 235.95 \quad 14244 \quad 1 \; Teams$
- 385 110 223624 244472 242.94 14332 1 Teams
- $555 \quad 23 \quad 11552 \quad 42636 \quad 14.86 \quad 9124 \quad 1 \; TextInputHost$
- $99 \quad 7 \quad 1216 \quad 4668 \qquad 4528 \quad 0 \; tmGAInstall$
- 133 9 2120 7704 5632 0 unsecapp
- $138 \quad 10 \quad 2208 \quad 8964 \quad 1.02 \ 14432 \ 1 \ UserOOBEBroker$
- 170 11 1472 6056 832 0 wininit
- $296 \quad 14 \quad 3196 \quad 12384 \qquad \qquad 904 \quad 1 \text{ winlogon}$
- 1603 65 110380 225852 192.86 12064 1 WINWORD
- $407 \quad 19 \quad 5240 \quad 16124 \qquad \quad 4044 \quad 0 \text{ wlanext}$
- 233 14 4208 12296 5996 0 WmiPrvSE
- 171 11 3336 11008 13080 0 WmiPrvSE
- 316 14 4284 10460 824 0 WUDFHost
- 596 18 7684 10688 1136 0 WUDFHost
- 287 18 7416 18432 1,242.73 9312 1 xampp-control

BIOS

CURRENT USER

```
PS C:\Users\NISHANK> Get-WmiObject -Class Win32_BIOS -ComputerName.

SMBIOSBIOSVersion : F.35

Manufacturer : Insyde
Name : F.35

SerialNumber : SCD0809G0Z
Version : HPQDEM - 0

PS C:\Users\NISHANK> Get-WmiObject -Class Win32_ComputerSystem -Property UserName -ComputerName .

GENUS : 2

_CLASS : Win32_ComputerSystem
SUPERCLASS : Win32_ComputerSystem
SUPERCLASS : Win32_ComputerSystem
SUPERCLASS : PATA

DYNASTY :
RELPATH :
PROPERTY_COUNT : 1
DERIVATION : {}
SERVER :
NAMESPACE :
PATH :
PATH :
UserName : LAPTOP-G637AG3U\NISHANK
PSComputerName : LAPTOP-G637AG3U\NISHANK
```

Get Information about the make and model of a computer

```
PS C:\Users\NISHANK> Get-WmiObject -Class Win32_ComputerSystem

Domain : WORKGROUP

Manufacturer : HP

Model : HP Pavilion Laptop 15-cc1xx

Name : LAPTOP-G637AG3U

PrimaryOwnerName : HP

TotalPhysicalMemory : 8470630400
```

Get information about the installed applications

 $PS \ C: \ Visers \ NISHANK > Get-WmiObject \ - Class \ Win 32_Product \ - ComputerName \ . \ | \ Format-Wide \ - Column \ 1 \ - ComputerName \ . \ | \ Format-Wide \ - Column \ 1 \ - Co$

Python 3.9.1 Core Interpreter (64-bit)

Python 3.9.1 Tcl/Tk Support (64-bit)

Autodesk App Manager 2020

Autodesk Genuine Service

Python 3.9.1 Standard Library (64-bit)

DaVinci Resolve

Autodesk Featured Apps 2020

Python 3.9.1 pip Bootstrap (64-bit)

Autodesk Save to Web and Mobile

```
GoTo Opener
```

Python 3.9.1 Utility Scripts (64-bit)

Python 3.9.1 Test Suite (64-bit)

Python 3.9.1 Add to Path (64-bit)

Python 3.9.1 Executables (64-bit)

Python 3.9.1 Development Libraries (64-bit)

Python 3.9.1 Documentation (64-bit)

Office 16 Click-to-Run Extensibility Component

Office 16 Click-to-Run Localization Component

Office 16 Click-to-Run Licensing Component

Intel(R) Wireless Bluetooth(R)

HP Recovery Manager

EFH

Java 9.0.4 (64-bit)

Autodesk Material Library 2020

Update for Windows 10 for x64-based Systems (KB4023057)

Microsoft Visual C++ 2010 $\times 64$ Redistributable - 10.0.40219

HP ePrint SW

Microsoft Visual C++ 2005 Redistributable (x64)

Microsoft Visual C++ 2010 x86 Redistributable - 10.0.40219

Microsoft Visual C++ 2013 x86 Minimum Runtime - 12.0.21005

Microsoft Visual C++ 2013 x86 Additional Runtime - 12.0.21005

HP Support Solutions Framework

Oracle Database 11g Express Edition

Bonjour

Java(TM) SE Development Kit 9.0.4 (64-bit)

Intel(R) Rapid Storage Technology

 $vs_FileTracker_Singleton$

 $Intel(R)\ Management\ Engine\ Components$

Microsoft Visual C++ 2005 Redistributable

Intel(R) Management Engine Driver

HP ePrint SW

Python Launcher

Microsoft Visual Studio Setup Configuration

Java 8 Update 271 (64-bit)

Java SE Development Kit 8 Update 271 (64-bit)

Intel(R) Trusted Connect Service Client x86

Intel(R) Trusted Connect Service Client x64

HP ePrint SW

Microsoft Visual C++ 2019 X64 Additional Runtime - 14.28.29325

Xperia Companion

HP Customer Experience Enhancements

Intel(R) ME UninstallLegacy

Microsoft Visual C++ 2019 X64 Minimum Runtime - 14.28.29325

Microsoft Visual C++ 2013 x64 Additional Runtime - 12.0.21005

Oracle VM VirtualBox 6.1.18

vs_minshellmsires

Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.6161

Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.6161

Microsoft Visual C++ 2013 x64 Minimum Runtime - 12.0.21005

Microsoft Visual C++ 2008 Redistributable - x86 9.0.21022

Microsoft Visual C++ 2019 X86 Additional Runtime - 14.24.28127

HP Support Assistant

 $vs_filehandler_amd64$

DaVinci Resolve Panels

Microsoft Visual C++ 2012 x64 Additional Runtime - 11.0.61030

Intel(R) Chipset Device Software

Microsoft Visual C++ 2005 Redistributable (x64)

Microsoft Xbox 360 Accessories 1.2

Autodesk Material Library Base Resolution Image Library 2020

HP 3D DriveGuard

HP Audio Switch

Autodesk Single Sign On Component

Xperia Companion Service

HP ePrint SW

HP System Event Utility

 $vs_filehandler_x86$

 ${\bf Microsoft\ VC++\ redistributables\ repacked.}$

HP ePrint SW

HP ePrint SW

HP Registration Service

Microsoft VC++ redistributables repacked.

HP JumpStart Bridge

Intel(R) PRO/Wireless Driver

Intel® PROSet/Wireless WiFi Software

Microsoft Visual C++ 2012 x86 Additional Runtime - 11.0.61030

Microsoft Visual C++ 2005 Redistributable

Microsoft Visual C++ 2012 x64 Minimum Runtime - 11.0.61030

HP PC Hardware Diagnostics UEFI

Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.4148

Microsoft Visual C++ 2008 Redistributable - x86 9.0.30729.17

Microsoft Visual C++ 2012 x86 Minimum Runtime - 11.0.61030

 $vs_minshellmsi$

HP JumpStart Launch

HP CoolSense

Microsoft Visual C++ 2008 Redistributable - x64 9.0.30729.17

Microsoft Update Health Tools

Microsoft Visual C++ 2019 X86 Minimum Runtime - 14.24.28127

Java Auto Updater

Intel(R) Management Engine Components

AutoCAD 2020

ACAD Private

AutoCAD 2020 Language Pack - English

AutoCAD 2020 - English

ACA & MEP 2020 Object Enabler

Find the five processes using the most memory

1)Ps - process

2)Ws –working set (Working set is a concept in computer science which defines the amount of memory that a process requires in a given time interval.)

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\NISHANK> ps | sort -p ws | select -last 5
Handles NPM(K)
                   PM(K)
                              WS(K)
                                        CPU(s) Id SI ProcessName
                                        253.14 14332 1 Teams
                  215884
                             235292
                                                       0 Memory Compression
1 SearchApp
                             251200
                                                 2944
                                        88.67
542.95
306.94
                  225132
   2309
            163
                             307364
                                                 9032
    540
                  286396
                             313764
                                                 6416
                                                        1 Teams
                 445728
                             470572
                                                       1 Teams
PS C:\Users\NISHANK> _
```