Secure Coding-Assignment

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Slot:L39-L40

Date: 24.03.2021

KNOWN COMMANDS

```
PS C:\Users\sesha_h2tkg8x> PING WWW.GOOGLE.COM

Pinging WWW.GOOGLE.COM [2404:6800:4009:815::2004] with 32 bytes of data:

Request timed out.

Reply from 2404:6800:4009:815::2004: time=276ms

Reply from 2404:6800:4009:815::2004: time=223ms

Reply from 2404:6800:4009:815::2004: time=272ms

Ping statistics for 2404:6800:4009:815::2004:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 223ms, Maximum = 276ms, Average = 257ms
```

IPCONFIG

```
PS C:\Users\sesha_h2tkg8x> IPCONFIG
Windows IP Configuration
Ethernet adapter Ethernet 2:
  Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 3:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 6:
  Media State . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix .:
Ethernet adapter VMware Network Adapter VMnet1:
   Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::c22:b0ed:262:e143%11
  IPv4 Address. . . . . . . . . : 192.168.146.1
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . . :
Ethernet adapter VMware Network Adapter VMnet8:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::f070:450d:7e45:1644%12
  IPv4 Address. . . . . . . . . . : 192.168.26.1
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . . :
Wireless LAN adapter Wi-Fi 2:
  Connection-specific DNS Suffix .:
  IPv6 Address. . . . . . . : 2409:4070:4604:f0b1:1d5e:a1cf:cd2b:45aa
Temporary IPv6 Address. . . . : 2409:4070:4604:f0b1:b056:33df:ee36:5bf8
  Link-local IPv6 Address . . . . : fe80::1d5e:a1cf:cd2b:45aa%8
  IPv4 Address. . . . . . . . . : 192.168.225.50
   Default Gateway . . . . . . . : fe80::bc5f:a436:2499:8125%8
                                      fe80::dc43:88ff:fecd:2261%8
                                      192.168.225.1
Ethernet adapter Bluetooth Network Connection 3:
```

```
PS C:\Users\sesha_h2tkg8x> LS
    Directory: C:\Users\sesha_h2tkg8x
                       LastWriteTime
Mode
                                                Length Name
               02-11-2020
24-07-2020
d----
                                19:47
                                                        .android
                                                        .AndroidStudio4.0
d----
                                20:33
15:41
d----
               13-08-2020
                                                        .atom
               02-11-2020
                                19:46
                                                        .BigNox
d----
               27-04-2020
                                18:34
                                                        .conda
                                12:23
12:23
15:33
d----
               13-08-2020
                                                        .config
               13-08-2020
d----
                                                        .eclipse
               22-12-2019
                                                        .gradle
.idlerc
d----
                                11:24
21:10
d----
               15-04-2020
               11-04-2020
                                                        .ipynb_checkpoints
d-----
               11-04-2020
                                21:03
                                                        .ipython
               12-04-2020
d----
                                                        .jupyter
               03-11-2020
                                11:14
d----
                                                        .m2
               12-04-2020
                                                        .matplotlib
d----
                                12:22
               03-11-2020
                                11:10
                                                        .nbi
               11-11-2020
                                20:37
d----
               13-08-2020
                                15:41
                                                        .platformio
                                13:19
12:23
07:20
d----
               02-05-2020
                                                        .spyder-py3
                                                        .tooling
               13-08-2020
d----
               11-03-2020
d----
                                                        .ueli
               17-09-2020
                                18:08
                                                        .vscode
d-r---
               08-01-2021
                                04:43
                                                        3D Objects
                                20:02
11:19
d----
               30-07-2020
                                                        AndroidStudioProjects
d----
               04-04-2020
                                                        Apple
               30-01-2021
                                                        Cisco Packet Tracer 8.0
                                16:40
d----
               08-01-2021
                                04:43
d-r---
                                                        Contacts
d-r---
               24-03-2021
                                20:04
                                                        Desktop
d-r---
               19-03-2021
                                08:45
                                                        Documents
               24-03-2021
11-11-2020
                                21:28
19:57
d-r---
                                                        Downloads
d----
                                                        eclipse
d----
               11-11-2020
                                20:38
                                                        eclipse-workspace
d-r---
               08-01-2021
                                04:43
                                                        Favorites
               29-04-2020
                                15:08
                                                        HelloNode
               08-01-2021
08-01-2021
d-r---
                                04:43
                                                        Links
                                04:43
d-r---
                                                        Music
                                                        Nox_share
OneDrive
               11-08-2020
d----
                                18:02
                                13:34
19:42
dar--1
               15-03-2021
               29-01-2021
                                                        Oracle
d-r---
               08-01-2021
                                04:43
                                                        Pictures
d----
               24-03-2021
                                13:43
                                                        PycharmProjects
               08-01-2021
08-01-2021
                                04:43
d-r---
                                                        Saved Games
                                04:43
d-r---
                                                        Searches
                                04:43
d-r---
               08-01-2021
                                                        Videos
d----
               02-11-2020
                                19:46
                                                        vmlogs
               29-04-2020
                                15:02
                                                     13 .bash_history
               13-04-2020
                                11:50
                                                     43 .condarc
               30-07-2020
                                                     16 .emulator_console_auth_token
a----
                                20:41
                                                   184 .gitconfig
22 .node_repl_history
               17-02-2021
                                18:40
               29-04-2020
                                14:52
               13-03-2021
                                15:58
                                                    184 .packettracer
                                                     31 .python_history
15 advanced_ip_scanner_Aliases.bin
               07-06-2020
                                15:29
               06-03-2020
                                20:53
```

```
Windows PowerShell
              13-08-2020
                                                     .config
              13-08-2020
d----
                              12:23
                                                     .eclipse
d----
                                                     .gradle
              22-12-2019
                              15:33
d----
              15-04-2020
                              11:24
                                                     .idlerc
d----
              11-04-2020
                              21:10
                                                     .ipynb_checkpoints
              11-04-2020
                                                     .ipython
d----
                              21:03
d----
              12-04-2020
                              10:11
                                                     .jupyter
d----
              03-11-2020
                              11:14
                                                     .m2
d----
              12-04-2020
                              12:22
                                                     .matplotlib
              03-11-2020
                              11:10
                                                     .nbi
              11-11-2020
                              20:37
                                                     .p2
d----
                                                     .platformio
                              15:41
d----
              13-08-2020
d----
              02-05-2020
                              13:19
                                                     .spyder-py3
d----
                                                     .tooling
              13-08-2020
                              12:23
              11-03-2020
                              07:20
                                                     .ueli
              17-09-2020
                              18:08
                                                     .vscode
                              04:43
                                                     3D Objects
d-r---
              08-01-2021
                              20:02
                                                     AndroidStudioProjects
d----
              30-07-2020
d----
              04-04-2020
                              11:19
                                                     Apple
d----
              30-01-2021
                              16:40
                                                     Cisco Packet Tracer 8.0
d-r---
              08-01-2021
                              04:43
                                                     Contacts
d-r---
              24-03-2021
                              20:04
                                                     Desktop
d-r---
              19-03-2021
                              08:45
                                                     Documents
d-r---
              24-03-2021
                              21:28
                                                     Downloads
d----
              11-11-2020
                              19:57
                                                     eclipse
d----
              11-11-2020
                              20:38
                                                     eclipse-workspace
d-r---
              08-01-2021
                              04:43
                                                     Favorites
              29-04-2020
d----
                              15:08
                                                     HelloNode
                                                     Links
              08-01-2021
d-r---
                              04:43
d-r---
              08-01-2021
                              04:43
                                                     Music
d----
              11-08-2020
                              18:02
                                                     Nox_share
                                                     OneDrive
dar--1
              15-03-2021
                              13:34
              29-01-2021
                              19:42
                                                     Oracle
d----
              08-01-2021
                                                    Pictures
d-r---
                              04:43
                              13:43
d----
              24-03-2021
                                                     PycharmProjects
d-r---
              08-01-2021
                              04:43
                                                     Saved Games
                              04:43
                                                     Searches
d-r---
              08-01-2021
d-r---
              08-01-2021
                              04:43
                                                     Videos
d----
              02-11-2020
                              19:46
                                                    vmlogs
                                                 13 .bash_history
                              15:02
-a---
              29-04-2020
a----
              13-04-2020
                              11:50
                                                 43 .condarc
a----
              30-07-2020
                              20:41
                                                 16 .emulator_console_auth_token
              17-02-2021
a----
                              18:40
                                                184 .gitconfig
              29-04-2020
                                                 22 .node_repl_history
                              14:52
              13-03-2021
                                                184 .packettracer
-a---
                              15:58
a----
              07-06-2020
                              15:29
                                                 31 .python_history
a----
              06-03-2020
                              20:53
                                                 15 advanced_ip_scanner_Aliases.bin
-a----
                                                15 advanced_ip_scanner_Comments.bin
512 advanced_ip_scanner_MAC.bin
              06-03-2020
                              20:53
              06-03-2020
                              20:53
-a----
              02-08-2020
                              12:45
                                              67919 battery-report.html
-a---
                                                300 d4ac4633ebd6440fa397b84f1bc94a3c.7z
a----
              02-11-2020
                              20:16
                                                1661 fulfilment_center_info.csv
              11-04-2020
                              21:50
              11-08-2020
                              18:02
                                                 66 inittk.ini
a----
              11-08-2020
                              18:01
                                                 41 inst.ini
              11-04-2020
                              21:47
                                               1096 meal_info.csv
                                                 45 nuuid.ini
              11-08-2020
                              18:01
                                           18733819 train.csv
              11-04-2020
                              21:56
a----
              11-04-2020
                              21:05
                                                 555 Untitled.ipynb
a----
              02-05-2020
                              10:29
                                                 123 untitled0.py
a----
              11-04-2020
                              21:10
                                                 72 Untitled1.ipynb
              11-08-2020
                              18:01
                                                 53 useruid.ini
-a---
              13-04-2020
a----
                              13:06
                                             101263 WEEK 0 CODING ASST.ipynb
```

Get-Alias

PS C:\Users\sesha_h2tkg8x> 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 Alias	cd -> Set-Location CFS -> ConvertFrom-String	3.1.0.0	Microsoft.PowerShell.Utility						
Alias	chdir -> Set-Location	3.1.0.0	MICH OSOI C. FOWER SHELL. OCTITICY						
Alias	clc -> Clear-Content								
Alias	clear -> Clear-Host								
Alias	clhy -> Clear-History								
Alias	cli -> Clear-Item								
Alias	<pre>clp -> Clear-ItemProperty</pre>								
Alias	cls -> Clear-Host								
Alias	clv -> Clear-Variable								
Alias Alias	cnsn -> Connect-PSSession								
Alias Alias	compare -> Compare-Object 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 Alias	<pre>dir -> Get-ChildItem dnsn -> Disconnect-PSSession</pre>								
Alias	ebp -> Enable-PSBreakpoint								
Alias	echo -> Write-Output								
Alias	epal -> Export-Alias								
Alias	epcsv -> Export-Csv								
Alias	epsn -> Export-PSSession								
Alias	erase -> Remove-Item								
Alias	etsn -> Enter-PSSession								
Alias	exsn -> Exit-PSSession								
Alias Alias	<pre>fc -> Format-Custom fhx -> Format-Hex</pre>	3.1.0.0	Microsoft.PowerShell.Utility						
Alias	fl -> Format-list	3.1.0.0	MICH OSOFC. POWER SHELL. OCCITICA						
Alias	foreach -> ForEach-Object								
Alias	ft -> Format-Table								
Alias	fw -> Format-Wide								
Alias	gal -> Get-Alias								
Alias	gbp -> Get-PSBreakpoint								
Alias	gc -> Get-Content	3.00	Winners St. Daving Str. 22 Mars						
Alias	gcb -> Get-Clipboard	3.1.0.0	Microsoft.PowerShell.Management						
Alias Alias	gci -> Get-ChildItem gcm -> Get-Command								
Alias	gcm -> Get-Command gcs -> Get-PSCallStack								
Alias	gdr -> Get-PSDrive								
Alias	ghy -> Get-History								
Alias	gi -> Get-Item								
Alias	gin -> Get-ComputerInfo	3.1.0.0	Microsoft.PowerShell.Management						
Alias	gjb -> Get-Job								
Alias	gl -> Get-Location								
Alias	gm -> Get-Member								

```
Windows PowerShell
Alias
                gp -> Get-ItemProperty
Alias
                gps -> Get-Process
Alias
                gpv -> Get-ItemPropertyValue
Alias
                group -> Group-Object
                gsn -> Get-PSSession
Alias
Alias
                gsnp -> Get-PSSnapin
                gsv -> Get-Service
Alias
Alias
                gtz -> Get-TimeZone
                                                                    3.1.0.0
                                                                               Microsoft.PowerShell.Management
                gu -> Get-Unique
Alias
Alias
                gv -> Get-Variable
Alias
                gwmi -> Get-WmiObject
Alias
                h -> Get-History
                history -> Get-History
Alias
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
                iwmi -> Invoke-WmiMethod
Alias
                iwr -> Invoke-WebRequest
Alias
                kill -> Stop-Process
Alias
                lp -> Out-Printer
Alias
                ls -> Get-ChildItem
Alias
               man -> help
Alias
                md -> mkdir
                measure -> Measure-Object
Alias
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
```

```
Windows PowerShell
Alias
Alias
                  npssc -> New-PSSessionConfigurationFile
                 nsn -> New-PSSession
Alias
Alias
                 nv -> New-Variable
Alias
                 ogv -> Out-GridView
Alias
                 oh -> Out-Host
                 popd -> Pop-Location ps -> Get-Process
Alias
Alias
                 pushd -> Push-Location
Alias
Alias
                 pwd -> Get-Location
Alias
                 r -> Invoke-History
Alias
                 rbp -> Remove-PSBreakpoint
Alias
                 rcjb -> Receive-Job
                 rcsn -> Receive-PSSession
Alias
Alias
                 rd -> Remove-Item
Alias
                 rdr -> Remove-PSDrive
Alias
                 ren -> Rename-Item
Alias
                  ri -> Remove-Item
                 rjb -> Remove-Job
rm -> Remove-Item
Alias
Alias
                 rmdir -> Remove-Item
rmo -> Remove-Module
Alias
Alias
Alias
                 rni -> Rename-Item
Alias
                 rnp -> Rename-ItemProperty
Alias
                 rp -> Remove-ItemProperty
                 rsn -> Remove-PSSession
Alias
                 rsnp -> Remove-PSSnapin
rujb -> Resume-Job
Alias
Alias
Alias
                 rv -> Remove-Variable
                 rvpa -> Resolve-Path
rwmi -> Remove-WmiObject
sajb -> Start-Job
Alias
Alias
Alias
Alias
                 sal -> Set-Alias
Alias
                 saps -> Start-Process
Alias
                 sasv -> Start-Service
                  sbp -> Set-PSBreakpoint
Alias
Alias
                 sc -> Set-Content
                 scb -> Set-Clipboard
Alias
                                                                            3.1.0.0
                                                                                        Microsoft.PowerShell.Management
Alias
                 select -> Select-Object
Alias
                 set -> Set-Variable
Alias
                 shcm -> Show-Command
                  si -> Set-Item
Alias
                 sl -> Set-Location
sleep -> Start-Sleep
sls -> Select-String
Alias
Alias
Alias
Alias
                 sort -> Sort-Object
Alias
                  sp -> Set-ItemProperty
                 spjb -> Stop-Job
spps -> Stop-Process
Alias
Alias
                 spsv -> Stop-Service
Alias
Alias
                 start -> Start-Process
Alias
                 stz -> Set-TimeZone
                                                                            3.1.0.0
                                                                                        Microsoft.PowerShell.Management
Alias
                 sujb -> Suspend-Job
                 sv -> Set-Variable
swmi -> Set-WmiInstance
Alias
Alias
Alias
                 tee -> Tee-Object
                  trcm -> Trace-Command
Alias
                  type -> Get-Content
Alias
Alias
                  wget -> Invoke-WebRequest
Alias
                  where -> Where-Object
Alias
                  wjb -> Wait-Job
Alias
                  write -> Write-Output
```

12 examples:

1)foreach

```
PS C:\Users\sesha_h2tkg8x> 30000,56978,12432 | ForEach-Object -Process{$_/1024}
29.296875
55.642578125
12.140625
```

2) mkdir lol and rmdir lol

```
PS C:\Users\sesha_h2tkg8x> mkdir Lol
    Directory: C:\Users\sesha_h2tkg8x
Mode
                     LastWriteTime
                                           Length Name
d----
              24-03-2021
                            22:45
                                                  Lol
```

PS C:\Users\sesha_h2tkg8x> rmdir Lol

3) Write-Output

```
TypeName: System.String
                                                                                                                                                                                                                                         Definition
                                                                                                 MemberType
                                                                                                 Method
Method
Method
                                                                                                                                                                                                                                       System.Object Clone(), System.Object ICloneable.Clone()
int CompareTo(System.Object value), int CompareTo(string str8), int IComparable.CompareTo(System.Object obj), int IComparable[string].CompareTo(string other)
bool Contains(string value)
  ompareTo
Contains
                                                                                                                                                                                                                                           DOUG CONTRINSIATING VALUE? VALUE? VALUE (ACCOUNTAINS) AND CONTRIBUTION OF THE CONTRIBU
                                                                                                 Method
Method
Method
Method
                                                                                       to the control of the
      etEnumerator
    etHashCode
  ietType
ietTypeCode
    ndexOfAnv
  astIndexOfAny
lormalize
    adRight
    tartsWith
ubstring
oBoolean
oByte
  oChar
oCharArray
oDateTime
oDecimal
    oDouble
    oInt16
oInt32
oInt64
ToInt64 Method
ToLower Method
ToLowerInvariant Method
ToSSByte Method
ToSSingle Method
ToString Method
ToType Method
ToUJnt16 Method
ToUJnt12 Method
    oUInt64
    oUpper
oUpperInvariant
    rimEnd
    hars
ength
```

4) Write-Output 7,8,9 | MeasureObject

```
PS C:\Users\sesha_h2tkg8x> Write-Output 7,8,9 |Measure-Object
Count
         : 3
Average
Sum
Maximum
Minimum
Property :
```

5)Get processes based on process name

```
PS C:\Users\sesha_h2tkg8x> Get-Process | Where-Object {$_.ProcessName -Match
                                                                                       }_
                                         CPU(s)
Handles NPM(K)
                   PM(K)
                               WS(K)
                                                     Id SI ProcessName
                                            0.13
                                1900
                                                   4544
                                                          9 PDStyleAgent
    169
             11
                    1896
                                                          0 PEFService
                               20220
    448
             30
                   18788
                                                   5560
    650
                                            1.91 11632
                                                          9 powershell
             32
                   61084
                               76648
    232
                    27440
                                3944
                                                   5632
                                                          0 PresentationFontCache
    331
             17
                    5024
                                7852
                                                   6172
                                                          0 ProtectedModuleHost
```

6)Get commands based on properties

```
PS C:\Users\sesha_h2tkg8x> Get-Command |Where OutputType
CommandType
                                                                        Version
                                                                                    Source
                                                                                   Microsoft.PowerShell.Utility
Function
                                                                        3.1.0.0
                 Format-Hex
Function
                 Import-PowerShellDataFile
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
Function
                 mkdir
unction
                New-Guid
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
                                                                                   Microsoft.PowerShell.Utility
Microsoft.PowerShell.Management
                                                                        3.1.0.0
3.1.0.0
3.0.0.0
                New-TemporaryFile
Function
                Add-Computer
mdlet
                 Add-History
                                                                                    Microsoft.PowerShell.Core
Cmdlet
Cmdlet
                 Add-PSSnapin
                                                                        3.0.0.0
                                                                                   Microsoft.PowerShell.Core
                Add-Type
Clear-Variable
Cmdlet
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
Cmdlet
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
mdlet
                 Connect-PSSession
                                                                        3.0.0.0
                                                                                    Microsoft.PowerShell.Core
mdlet
                 ConvertFrom-StringData
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
                                                                                   Microsoft.PowerShell.Management
Cmdlet
                Convert-Path
                                                                        3.1.0.0
                ConvertTo-Csv
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
Cmdlet
                 ConvertTo-Xml
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
mdlet
mdlet
                Disable-PSBreakpoint
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
                Disconnect-PSSession
Enable-PSBreakpoint
[mdlet
                                                                        3.0.0.0
                                                                                   Microsoft.PowerShell.Core
                                                                                   Microsoft.PowerShell.Utility
Cmdlet
                                                                        3.1.0.0
                                                                        3.1.0.0
mdlet
                 Export-Alias
                                                                                    Microsoft.PowerShell.Utility
                 Export-PSSession
                                                                                   Microsoft.PowerShell.Utility
Microsoft.PowerShell.Security
mdlet
                                                                        3.1.0.0
[mdlet
                Get-Acl
                                                                        3.0.0.0
                Get-Alias
                                                                        3.1.0.0
3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
Cmdlet
                 Get-ChildItem
                                                                                    Microsoft.PowerShell.Management
mdlet
mdlet
                 Get-Clipboard
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
Cmdlet
                Get-Command
                                                                        3.0.0.0
                                                                                   Microsoft.PowerShell.Core
                                                                                   Microsoft.PowerShell.Management
                Get-ComputerRestorePoint
Cmdlet
                                                                        3.1.0.0
                Get-Content
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
mdlet
                 Get-ControlPanelItem
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
mdlet
Cmdlet
                Get-Culture
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
                Get-Date
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
Cmdlet
                Get-Event
                                                                                    Microsoft.PowerShell.Utility
Cmdlet
                                                                        3.1.0.0
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
mdlet
                 Get-EventLog
mdlet
                Get-EventSubscriber
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
                                                                                   Microsoft.PowerShell.Utility
Cmdlet
                Get-FormatData
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Core
                Get-History
                                                                        3.0.0.0
Cmdlet
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
mdlet
                 Get-Host
mdlet
                 Get-HotFix
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
[mdlet
                Get-Item
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Management
                Get-ItemProperty
                                                                                    Microsoft.PowerShell.Management
mdlet
                                                                        3.1.0.0
                                                                        3.0.0.0
                                                                                    Microsoft.PowerShell.Core
mdlet
                Get-Job
mdlet
                 Get-Location
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
[mdlet
                Get-Member
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
                Get-Module
                                                                                    Microsoft.PowerShell.Core
                                                                        3.0.0.0
Cmdlet
                                                                        3.1.0.0
mdlet
                 Get-Process
                                                                                    Microsoft.PowerShell.Management
                 Get-PSBreakpoint
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
mdlet
                Get-PSCallStack
Cmdlet
                                                                        3.1.0.0
                                                                                   Microsoft.PowerShell.Utility
                Get-PSDrive
                                                                                   Microsoft.PowerShell.Management
Cmdlet
                                                                        3.1.0.0
                Get-PSHostProcessInfo
                                                                                    Microsoft.PowerShell.Core
                                                                        3.0.0.0
mdlet
                 Get-PSProvider
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Management
mdlet
Cmdlet
                Get-PSReadLineKeyHandler
                                                                        2.0.0
                                                                                   PSReadline
                Get-PSReadLineOption
                                                                        2.0.0
                                                                                   PSReadline |
mdlet
                Get-PSSession
                                                                                    Microsoft.PowerShell.Core
Cmdlet
                                                                        3.0.0.0
                                                                                    Microsoft.PowerShell.Core
mdlet
                 Get-PSSessionCapability
                                                                        3.0.0.0
mdlet
                 Get-PSSessionConfiguration
                                                                        3.0.0.0
                                                                                    Microsoft.PowerShell.Core
                Get-PSSnapin
                                                                                   Microsoft.PowerShell.Core
Cmdlet
                                                                        3.0.0.0
                Get-Random
                                                                        3.1.0.0
                                                                                    Microsoft.PowerShell.Utility
mdlet
```

```
Windows PowerShell
                 Get-RunspaceDebug
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
                 Get-Service
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
Cmdlet
                                                                           3.1.0.0
                 Get-TraceSource
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
                 Get-Transaction
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                 Get-TypeData
Get-UICulture
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
                                                                           3.1.0.0
 mdlet
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                                                                                       Microsoft.PowerShell.Utility
 mdlet
                 Get-Variable
 mdlet
                 Group-Object
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                                                                                       Microsoft.PowerShell.Utility
Microsoft.PowerShell.Core
                 Import-Alias
Cmdlet
                                                                           3.1.0.0
 mdlet
                 Import-Module
                                                                           3.0.0.0
 mdlet
                 Import-PSSession
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                                                                                       Microsoft.PowerShell.Management
Microsoft.PowerShell.Utility
Cmdlet
                 Join-Path
                                                                           3.1.0.0
                 Measure-Command
                                                                           3.1.0.0
 mdlet
                 Measure-Object
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
 mdlet
Cmdlet
                 New-Alias
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
                 New-Event
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                                                                                       Microsoft.PowerShell.Management
 mdlet
                 New-Item
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Core
                 New-Module
Cmdlet
                 New-ModuleManifest
                                                                           3.0.0.0
                                                                                       Microsoft.PowerShell.Core
                                                                                       Microsoft.PowerShell.Core
Microsoft.PowerShell.Core
Cmdlet
                 New-PSSession
                                                                           3.0.0.0
                 New-PSSessionOption
                                                                           3.0.0.0
 mdlet
 mdlet
                 New-PSTransportOption
                                                                           3.0.0.0
                                                                                       Microsoft.PowerShell.Core
Cmdlet
                 New-Service
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                 New-TimeSpan
                                                                                       Microsoft.PowerShell.Utility
                                                                           3.1.0.0
Cmdlet
                 Out-String
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
 mdlet
                 Push-Location
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
Cmdlet
                 Read-Host
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                 Register-EngineEvent
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
                 Register-ObjectEvent
                                                                                       Microsoft.PowerShell.Utility
 mdlet
                 Remove-Computer
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                                                                                       Microsoft.PowerShell.Core
Cmdlet
                 Remove-Job
                                                                           3.0.0.0
                 Remove-PSSnapin
                                                                           3.0.0.0
                                                                                       Microsoft.PowerShell.Core
 mdlet
 mdlet
                 Resolve-Path
                                                                                       Microsoft.PowerShell.Management
Cmdlet
                 Restart-Service
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                                                                                       Microsoft.PowerShell.Core
                 Resume-Job
                                                                           3.0.0.0
 mdlet
 mdlet
                 Resume-Service
                                                                                       Microsoft.PowerShell.Management
                                                                           3.1.0.0
Cmdlet
                 Select-String
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                                                                                       Microsoft.PowerShell.Utility
Microsoft.PowerShell.Security
Cmdlet
                 Select-Xml
                                                                           3.1.0.0
                 Set-Acl
                                                                           3.0.0.0
Cmdlet
                 Set-Alias
                                                                                       Microsoft.PowerShell.Utility
 mdlet
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
Microsoft.PowerShell.Management
Cmdlet
                 Set-Date
                                                                           3.1.0.0
Cmdlet
                 Set-Location
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
                 Set-PSBreakpoint
                                                                           3.1.0.0
 imdlet
 mdlet
Cmdlet
                 Set-TraceSource
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
Cmdlet
                 Set-Variable
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Utility
 mdlet
                 Split-Path
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
 mdlet
                 Start-Job
                                                                           3.0.0.0
                                                                                       Microsoft.PowerShell.Core
Cmdlet
                 Start-Process
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                                                                                       Microsoft.PowerShell.Management
Microsoft.PowerShell.Core
Cmdlet
                 Start-Service
                                                                           3.1.0.0
 mdlet
                 Stop-Job
                                                                           3.0.0.0
Cmdlet
                 Stop-Process
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
Cmdlet
                 Stop-Service
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                                                                                       Microsoft.PowerShell.Core
                                                                           3.0.0.0
 mdlet
                 Suspend-Job
                  Suspend-Service
                                                                                       Microsoft.PowerShell.Management
 mdlet
Cmdlet
                 Test-ComputerSecureChannel
                                                                           3.1.0.0
                                                                                       Microsoft.PowerShell.Management
                                                                                       Microsoft.PowerShell.Management
Cmdlet
                 Test-Connection
                                                                           3.1.0.0
 mdlet
                  Test-ModuleManifest
                                                                           3.0.0.0
                                                                                       Microsoft.PowerShell.Core
                                                                                       Microsoft.PowerShell.Management
 mdlet
Cmdlet
                 Test-PSSessionConfigurationFile
                                                                           3.0.0.0
                                                                                       Microsoft.PowerShell.Core
                                                                                       Microsoft.PowerShell.Utility
Microsoft.PowerShell.Core
                 Wait-Event
[mdlet
 mdlet
                 Wait-Job
```

7)LOCATION

```
PS C:\Users\sesha_h2tkg8x> pwd
```

Path

C:\Users\sesha_h2tkg8x

8) HISTORY

```
Id CommandLine

------

1 PING Www.GOOGLE.COM

2 IPCONFIG

3 LS

4 Get-Alias

5 30000,56978,12432 |ForEach-Object -Process{$_/1024}}

6 mkdir Lol

7 rmdir Lol

8 Write-Output "test ouput" | Get-Memeber

9 Write-Output "test ouput" | Get-Member

10 Write-Output 7,8,9 |Measure-Object

11 Get-Process | Where-Object {$_ProcessName -Match "^P."}}

12 Get-Process | Where-Object {$_.ProcessName -Match "^P."}}

13 Get-Command |Where OutputType

14 pwd

15 h
```

9) Get-Variable

```
PS C:\Users\sesha_h2tkg8x> gv_
Name
                                 Value
                                 pwd
                                 pwd
args
ConfirmPreference
                                 High
ConsoleFileName
                                 SilentlyContinue
DebugPreference
Error
ErrorActionPreference
                                 Continue
ErrorView
                                 NormalView
                                 System.Management.Automation.EngineIntrinsics
ExecutionContext
false
                                 False
FormatEnumerationLimit
                                 C:\Users\sesha_h2tkg8x
HOME
                                 System.Management.Automation.Internal.Host.InternalHost
Host
InformationPreference
                                 SilentlyContinue
input
                                 System.Collections.ArrayList+ArrayListEnumeratorSimple
Matches
                                 {0}
4096
MaximumAliasCount
MaximumDriveCount
                                 4096
MaximumErrorCount
                                 256
MaximumFunctionCount
                                 4096
MaximumHistoryCount
                                 4096
MaximumVariableCount
                                 4096
MyInvocation
                                 System.Management.Automation.InvocationInfo
NestedPromptLevel
null
OutputEncoding
PID
                                 System.Text.ASCIIEncoding
                                 11632
PROFILE
                                 C:\Users\sesha_h2tkg8x\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1
ProgressPreference
                                 Continue
PSBoundParameters
PSCommandPath
PSCulture
                                 en-IN
PSDefaultParameterValues
PSEdition
                                 Desktop
PSEmailServer
PSHOME
                                 C:\Windows\System32\WindowsPowerShell\v1.0
PSScriptRoot
PSSessionApplicationName
PSSessionConfigurationName
                                 http://schemas.microsoft.com/powershell/Microsoft.PowerShell
PSSessionOption
                                 System.Management.Automation.Remoting.PSSessionOption
PSUICulture
                                 en-US
                                 {PSVersion, PSEdition, PSCompatibleVersions, BuildVersion...}
PSVersionTable
                                 C:\Users\sesha_h2tkg8x
Microsoft.PowerShell
PWD
ShellId
StackTrace
true
                                 True
VerbosePreference
                                 SilentlyContinue
WarningPreference
                                 Continue
/hatIfPreference
                                 False
```

10) Get-Module-gmo

11)python version and java version

```
PS C:\Users\sesha_h2tkg8x> python --version
Python 3.8.3
PS C:\Users\sesha_h2tkg8x> java --version
java 13.0.1 2019-10-15
Java(TM) SE Runtime Environment (build 13.0.1+9)
Java HotSpot(TM) 64-Bit Server VM (build 13.0.1+9, mixed mode, sharing)
PS C:\Users\sesha_h2tkg8x> _
```

12) Get-ProcessGps

```
PS C:\Users\sesha h2tkg8x> gps
Handles
             NPM(K)
                               PM(K)
                                                 WS(K)
                                                                  CPU(s)
                                                                                    Id
                                                                                          SI ProcessName
                                                                                4868
                                                                                            0 AdminService
      170
                                2628
                                                  3788
                                                                              20632
16736
14612
    151
5405
                             2208
171924
                                                                                            9 amdow
9 AMDRSServ
                     11
39
                                                                     0.17
                                                                     3.22
4.98
                                                 14136
48004
                              45772
1580
      832
                     47
                                                                                            9 ApplicationFrameHost
      150
                                                  6556
                                                                               17532
                                                                                            0 AppVShNotify
0 armsvc
                                 4348
                                                 16144
                                                                                 5368
      329
184
                     13
9
                                2600
1852
                                                 11376
2572
                                                                               18388
                                                                                            9 atieclxx
0 atiesrxx
                                                                                2356
                                                                   0.64
31.56
0.20
0.41
      207
709
                     12
28
                              2800
29792
                                                 10572
36732
                                                                              24812
8780
                                                                                            9 atiw
0 audiodg
      242
573
                                                 17352
1584
                                                                                            9 backgroundTaskHost
9 Calculator
                                4356
                                                                              24096
                               18064
                     28
                                                                              18980
                     27
19
                             159588
18408
                                                                 100.67
                                                                                3152
5204
                                                                                            9 chrome
9 chrome
     1267
                                                148004
                                                 38608
      301
                               70596
                                                 96100
                                                                   19.66
                                                                                8496
                                                                                            9 chrome
9 chrome
                     17
56
15
                             7332
119352
20492
                                                 18748
                                                                 1.20
194.34
                                                                              10672
      277
                                                                              13056
14784
                                                                                            9 chrome
9 chrome
      186
                                                 36028
                                                                     9.83
                                                                                            9 chrome
9 chrome
                                                 23228
16728
37596
      209
                     14
13
                                                                     0.14
1.08
      209
224
                                                                              18052
                                8600
                                                                              19136
21468
22324
                                                                                            9 chrome
9 chrome
9 chrome
                               14156
                                                                   80.89
1.11
0.22
0.47
      272
234
                     18
16
                               43796
17804
                                                 89008
                                                 38536
      193
223
                     9
14
                               2076
13012
                                                 7100
28008
                                                                              22816
24804
                                                                                            9 chrome
9 chrome
      142
97
                                1808
6244
                                                  8468
                                                                     0.17
                                                                               20084
                                                                                            9 CompPkgSrv
0 conhost
                                                  2364
                                                                                6388
                                                                     2.47
0.03
1.84
      277
100
                                6636
6348
                                                                              12660
21400
                                                                                            9 conhost
9 conhost
                     14
                                                 18616
                                                  5804
     590
1012
                     31
30
                                                                                            9 CredentialUIBroker
0 csrss
                               17660
                                                 33240
                                                                               25588
                               2116
2568
51588
                                                  3120
                                                                                 888
      848
506
                                                                                            9 csrss
9 ctfmon
0 dasHost
                                                                               15748
                                                 52512
                                                                   78.05 12132
      468
                               11768
                                                                              2964
15412
                                                                                           0 DDVCollectorSvcApi
0 DDVDataCollector
0 DDVRulesProcessor
0 DeliveryService
      173
408
                                                 2668
15832
                                2068
                               26440
6552
                                                                               14124
      280
                     18
                                                  6956
                                                                               12060
                     41
43
19
      689
                               35876
                                                 28620
                                                                               17228

    DellSupportAssistRemedationService
    dllhost

                                                 31672
7200
7496
      886
213
                               58620
4576
                                                                               14376
                                                                                 2372
                                                                    0.09
0.59
0.58
                    8
15
                                1496
3700
                                                                              14856
23544
                                                                                            9 dllhost
9 dllhost
      246
                                                 12292
     53
1734
                                                                              5088
18380
                                                                                            9 dptf_helper
9 dwm
0 esif_uf
                                1376
                                                  4260
                             595804
                                                 93836
      128
                                1836
                                               3216
140844
                                                                                4896
     4305
                 1367
                             127688
                                                                 288.38
                                                                              23568
                                                                                            9 explorer
0 fodhelper
                                                  7128
1172
                                1616
1904
      122
                                                                               13892
        39
39
                                                                                 1180
                                                                                            0 fontdrvhost
                                4460
                     23
10
                               13216
                                                                     1.94
                                                                                            9 GameBar
      467
                                                 29280
                                                                               18636
      171
154
                                1600
1656
                                                    300
320
                                                                                            0 GoogleCrashHandler
                                                                                            0 GoogleCrashHandler64
9 HxCalendarAppImm
9 HxOutlook
                                                                               18240
                                                 2144
1628
19400
                                                                     0.78
1.45
3.95
      866
                                                                               10168
      831
                     40
                               38608
                                                                                5452
                     29
                               13012
                                                                               11284
                                                                                            0 IAStorDataMgrSvc
                             107196
                                                 81796
                                                                               16792
```

Cmdlets

Get-WmiObject -Class Win32_Process

```
OSCreationClassName
                                              Win32_OperatingSystem
Microsoft Windows 10 Home Single Language|C:\WINDOWS|\Device\Harddisk0\Partition3
                                             56
1270
3401
1808
824
 OtherOperationCount
OtherTransferCount
 PageFaults
PageFileUsage
 ParentProcessId
PeakPageFileUsage
PeakVirtualSize
                                              824
2056
2203424518144
11404
8
1851392
PeakWorkingSetSize
Priority
PrivatePageCount
                                              12412
9
121
10
QuotaNonPagedPoolUsage :
QuotaPagedPoolUsage :
QuotaPagedPoolUsage :
 QuotaPeakPagedPoolUsage
ReadOperationCount
 ReadTransferCount
Status
 TerminationDate
ThreadCount
UserModeTime
VirtualSize
                                             3
312500
2203419799552
                                              10.0.19042
11190272
0
 WindowsVersion
WorkingSetSize
 /riteOperationCount
 VriteTransferCount
PSComputerName
                                             Ø
PRANAV
                                           : FRANKAY
: SVChost.exe
: 138
: 2203419799552
: 11190272
: C:\WINDOWS\system32\svchost.exe
 rocessName
 landles
 ath
  GENUS
  _CLASS
_SUPERCLASS
                                           : Win32_Process
: CIM_Process
                                              CIM_TIOCESS.Handle="22000"
45
  _DYNASTY
_RELPATH
  PROPERTY COUNT
  _DERIVATION
_SERVER
                                              GCIM_Process, CIM_LogicalElement, CIM_ManagedSystemElement}
PRANAV
                                              rnamay
root\cimv2
\PRANAV\root\cimv2:Win32_Process.Handle="22000"
  NAMESPACE
                                              rundll32.exe
"C:\WINDOWS\system32\rundll32.exe" -localserver 22d8c27b-47a1-48d1-ad08-7da7abd79617
Win32_Process
 Caption
 TreationClassName
TreationDate
TSCreationClassName
                                             20210324095542.872544+330
Win32_ComputerSystem
                                             PRANAV
rund1132.exe
C:\WINDOWS\system32\rund1132.exe
 SName
 escription
 ExecutablePath
ExecutionState
                                             22000
145
 Handle
 HandleCount
InstallDate
 tnstalibate
(ernelModeTime
MaximumWorkingSetSize
                                              625000
                                            : 200
 MinimumWorkingSetSize
                                            : rund1132.exe
```

Get-Service -by NAME EG-WIN Get-Service -Name "win*" -Exclude "WinRM"

Piping Get-process | select ProcessName, ID | Sort ProcessName | FL

```
PS C:\Users\sesha_h2tkg8x> <mark>Get-process |SELECT ProcessName,ID|Sort FL</mark>
ProcessName
                                                        4328
svchost
                                                        4340
4144
4160
svchost
svchost
svchost
                                                        4616
4712
4452
4516
3552
3584
3464
svchost
svchost
svchost
svchost
svchost
                                                        3824
4008
svchost
svchost
                                                         3664
3744
svchost
                                                        4904
5448
svchost
                                                        5760
5152
5228
7580
7784
6068
svchost
svchost
svchost
svchost
svchost
                                                        6092
4936
4944
svchost
svchost
                                                        4912
4920
svchost
svchost
                                                        4968
4980
svchost
svchost
                                                         4952
                                                        4960
1920
svchost
                                                         1976
1816
svchost
svchost
                                                         2164
2256
2056
2148
svchost
svchost
svchost
svchost
                                                         1616
1672
1332
svchost
svchost
svchost
                                                         1608
1740
1792
1680
1700
2364
2932
3008
svchost
svchost
svchost
svchost
svchost
svchost
 svchost
                                                         2868
2916
svchost
                                                         3316
3456
svchost
svchost
svchost
```

Script Security Settings

Get-ExecutionPolicy

```
PS C:\Users\sesha_h2tkg8x> Get-ExecutionPolicy
Restricted
```

Examples

• Pull computer serial number

```
PS C:\Users\sesha_h2tkg8x> Gwmi Win32_Bios |select SerialNumber
SerialNumber
-----CWFTXR2
```

• Gather Logical Disk Space information

```
DeviceID
           : C:
DriveType
ProviderName :
FreeSpace
           : 974179422208
Size
           : 1191833497600
VolumeName
          : Local Disk C
DeviceID
           : E:
DriveType
ProviderName :
FreeSpace
           : 435854610432
Size
          : 524286947328
VolumeName
          : local disk e
DeviceID
           : F:
DriveType
           : 3
ProviderName :
           : 247637991424
FreeSpace
Size
           : 268434403328
VolumeName
          : local disk f
```

Show running processes

```
Win32_OperatingSystem
Microsoft Windows 10 Home Single Language|C:\WINDOWS|\Device\Harddisk0\Partition3
OSCreationClassName
                                    : 725
: 10680
 OtherOperationCount
OtherTransferCount
PageFaults
                                     18681
PageFileUsage
                                      18064
ParentProcessId
PeakPageFileUsage
                                    : 1124
                                     20420
PeakVirtualSize
PeakWorkingSetSize
                                    : 64832
Priority
PrivatePageCount
                                    : 18497536
 ProcessId 
                                      18980
QuotaNonPagedPoolUsage :
QuotaPagedPoolUsage :
QuotaPeakNonPagedPoolUsage :
                                    : 28
                                    : 714
QuotaPeakPagedPoolUsage
ReadOperationCount
ReadTransferCount
                                      8192
SessionId
Status
TerminationDate
ThreadCount
                                    : 2031250
: 4723908608
UserModeTime
VirtualSize
 VindowsVersion
 lorkingSetSize
                                    : 1622016
WriteOperationCount
WriteTransferCount
PSComputerName
                                     PRANAV
                                    : Calculator.exe
: 573
: 4723908608
ProcessName
Handles
                                    : 1622016
                                    : C:\Program Files\WindowsApps\Microsoft.WindowsCalculator_10.1906.55.0_x64__8wekyb3d8bbwe\Calculator.exe
Path
```

Show Network Adapters

```
PS C:\Users\sesha_h2tkg8x> $NIC = Get-WMIObject Win32_NetworkAdapterConfiguration | where{$_.IPEnabled -eq "TRUE"}

PS C:\Users\sesha_h2tkg8x> $NIC

DHCPEnabled : True

IPAddress : {192.168.26.1, fe80::f070:450d:7e45:1644}

DefaultIPGateway :

DMSDomain :

ServiceName : WMetAdapter

Description : Whware Virtual Ethernet Adapter for VMnet8

Index : 1

DHCPEnabled : True

IPAddress : {192.168.146.1, fe80::c22:b0ed:262:e143}

DefaultIPGateway :

DMSDomain :

ServiceName : WMetAdapter

Description : VMware Virtual Ethernet Adapter for VMnet1

Index : 2

DHCPEnabled : True

IPAddress : {192.168.225.50, fe80::ld5e:alcf:cd2b:45aa, 2409:4070:4604:f0b1:b056:33df:ee36:5bf8, 2409:4070:4604:f0b1:ld5e:alcf:cd2b:45aa}

DHCPEnabled : True

IPAddress : {192.168.225.50, fe80::ld5e:alcf:cd2b:45aa, 2409:4070:4604:f0b1:b056:33df:ee36:5bf8, 2409:4070:4604:f0b1:ld5e:alcf:cd2b:45aa}

DHCPEnabled : True

IPAddress : {192.168.225.50, fe80::bc5f:a436:2499:8125, fe80::dc43:88ff:fecd:2261}

DHCPEnabled : {192.168.225.70, fe80::dc43:88ff:fecd:22
```

Process

```
Windows PowerShell
 PS C:\Users\sesha_h2tkg8x> Get-Process |Where {$_.handles -gt 500} |Sort handles |Format-Table
                                                                                       CPU(s)
                                                                                                               Id SI ProcessName
                                                                                                                        9 backgroundTaskHost
9 ctfmon
0 svchost
9 Teams
                                                                                        0.53 23032
84.17 12132
        501
508
516
518
528
542
547
                                         15980
                                                                 45816
                                         55912
16408
                                                                 56024
26384
                                                                                                       12132
13132
                                     16408
486716
4120
20788
11012
14408
7828
231328
7576
18064
                                                                                  1,815.92
                         389040
4808
                                                                                                                         0 svchost
9 ModuleCoreService
9 SystemSettingsBro
                                                                                                       24036
14624
                                                                                        48.91
16.83
                                                                 35080
                                                                                                                        9 ModuleCoreService
9 SystemSettingsBroker
0 McCSPServiceHost
0 svchost
0 SmartByteNetworkService
9 igfxEM
9 Calculator
9 RuntimeBroker
0 svchost
0 credentialUIBroker
0 svchost
                                                                 32228
20816
14684
52540
        549
558
558
                                                                                                          8276
4340
5392
                                                                                        2.84
0.41
8.86
10.06
        568
573
576
                                                                 26428
1584
33316
                                                                                                        24024
18980
                                        7040
14092
27952
17660
11836
28392
                                                                                                          6776
3684
4904
        576
579
590
590
595
639
                                                                 22256
32916
                                                                 33244
14228
76476
                                                                                          1.88 25588
                                                                                                        18044
                                                                                                                         0 svchost
9 StartMenuExperienceHost
                                                                                                          6780
                                                                                          8.58
                                                                                                       7280
23276
22224
11732
17228
8552
        651
669
671
684
699
705
711
728
733
                                        21224
15076
11464
                                                              21456
43336
39856
140768
                                                                                                                         0 servicehost
9 McUICnt
9 RuntimeBroker
                                                                                        6.33
12.11
                                      235012
                                                                                                                         0 MoUsoCoreWorker
                                        35732
6536
13012
                                                                 29112
9396
                                                                                                                         0 DeliveryService
                                                                                                                         0 svchost
9 HxTsr
                                                                                      3.95 11284
314.66 8516
                                                                 11720
                                                                                                                        0 mcshield
0 svchost
0 MsMpEng
                                      376460
6480
317000
                                                              306120
12816
34996
                                                                                                          8516
3664
5580
        738
740
761
                                        66844
30740
6832
                                                                                        11.20 11632
56.58 8780
12372
                                                                                                                         9 powershell
0 audiodg
0 SecurityHealthService
                                                                 86292
38424
                                                                   9372
        763
779
821
                                        9224
3948
45136
                                                                34824
9068
53976
                                                                                                       18168
2256
11636
                                                                                                                         9 svchost
0 svchost
0 OfficeClickToRun
                                        38608
45772
27608
11324
2568
22788
        831
832
838
                                                                                          1.45
5.02
1.42
                                                                                                                         9 HxOutlook
9 ApplicationFrameHost
9 YourPhone
                                                                 1628
47916
                                                                                                        5452
14612
                                                                   7300
                                                                                                         15916
        839
851
862
                                                                                                        1976
15748
23616
                                                                 21468
                                                                                                                         0 svchost
                                                                                                                         0 svchost
9 csrs
9 sihost
9 HxCalendarAppImm
0 ModuleCoreService
9 WWAHost
                                                                 6776
43332
                                                                                        28.91
0.78
                                                                 2144
9916
23324
        866
                                         21856
                                                                                                        10168
        868
878
889
                                         8244
49916
57516
                                                                                        42.02
                                                                 29980
                                                                                                        14376
                                                                                                                         0 DellSupportAssistRemedationService
                                         24636
37624
                                                                 1588
40004
9872
                                                                                        0.89 908
23.16 21176
                                                                                                                          9 SystemSettings
9 ShellExperienceHost
        906
910
921
934
990
996
                                                                                                                         0 services
9 WinStore.App
0 SupportAssistAgent
                                           8976
                                                                                                            824
                                      8976
47868
597980
42544
15288
2120
72552
                                                                 2272
73676
19496
                                                                                                       23028
15972
                                                                                                                          0 svchost
9 RuntimeBroker
0 csrss
0 ModuleCoreService
                                                                                                           1616
      1010
1011
1024
                                                                 35840
3112
67984
                                                                                          5.38 11452
888
4296
      1099
1157
1179
                                         58264
11556
56012
                                                                                                          6692
8388
1544
                                                                                                                        0 MfeAVSvc
9 svchost
0 SearchIndexer
9 Teams
                                                                 46584
45868
                                                                 63052
                          893
                                      177032
                                                               111436
                                                                                      407.55 13768
```

• Find the processes in the memory

S C:\Users\sesha_h2tkg8x> Ps									
landles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName		
170	9	2628	3784		4868		AdminService		
151	11	2208	1812	0.17	20632	9	amdow		
5405	39	171924	14136	3.25	16736		AMDRSServ		
832	47	45772	47916	5.02	14612	9	ApplicationFrameHost		
150	8	1580	6560		17532	0	AppVShNotify		
333	18	4348	16140		5368		armsvc		
340	13	2600	11380		18388		atieclxx		
184	9	1852	2572		2356		atiesrxx		
207	12	2800	10452		24812		atiw		
283	26	12216	19208	57.36	8780		audiodg		
240	16	4244	17340		22624		backgroundTaskHost		
501 573	40 28	15980 18064	44720 1584		23032 18980		backgroundTaskHost Calculator		
1267	27	172888	160640	108.77	3152		chrome		
305	19	18644	38664	22.08	5204		chrome		
234	15	74848	101356	22.09	8496		chrome		
277	17	7332	18744		10672		chrome		
1607	56	134072	191904	208.09			chrome		
186	16	22584	38024	11.83			chrome		
209	14	11836	23220	0.16	15464	9	chrome		
212	13	8320	16468	1.08	18052	9	chrome		
224	15	14216	37376	1.06	19136	9	chrome		
272	18	43956	89240	105.75	21468	9	chrome		
234	16	17112	37316		22324		chrome		
193	9	2076	7100	0.25			chrome		
223	14	13012	27896	0.48			chrome		
142	7	1808	8468	0.17			CompPkgSrv		
97	7	6244	2364	10.45	6388		conhost		
279 100	14 7	6320	18868		12660		conhost		
590	31	6348 17660	5804 33244	1.88	21400 25588		conhost CredentialUIBroker		
1008	30	2120	3108	1.00	888		CSPSS		
860	28	2568	6784		15748		csrss		
508	18	56244	56360	84.59	12132		ctfmon		
456	21	11700	15976		2964		dasHost		
173	9	2068	2664		15412		DDVCollectorSvcApi		
408	25	26440	15848		14124	0	DDVDataCollector		
280	18	6552	6956		12060	0	DDVRulesProcessor		
691	40	35732	29112		17228		DeliveryService		
889	43	57516	29980		14376		DellSupportAssistRemedationService		
213	19	4576	7200		2372		dllhost		
121	8	1496	7360		14856		dllhost		
248	15	3708	12308	0.67	23544		dllhost		
1734	6 73	1376	4260	0.58	5088		dptf_helper		
1734 128	72 8	599124 1836	90104 3216		18380 4896		dwm esif uf		
4341	1387	128256	139212	301.05	23568		esit_ut explorer		
122	8	1616	7128	301.03	13892		fodhelper		
39	6	1904	1168		1180		fontdrvhost		
39	8	4432	8620		20252		fontdryhost		
465	23	13212	29248	1.94			GameBar		
171	11	1736	1384		11984		GoogleCrashHandler		
154	9	1656	320		18240		GoogleCrashHandler64		
866	35	21856	2144	0.78	10168		HxCalendarAppImm		
831	40	38608	1628	1.45	5452		HxOutlook		
705	29	13012	11720	3.95	11284		HxTsr		
436	32	107156	81780		16792	0	IAStorDataMgrSvc		

• BIOS

SMBIOSBIOSVersion : 1.3.1 Manufacturer : Dell Inc. Name : 1.3.1 SerialNumber : CWFTXR2 Version : DELL - 1072009

• Current User

PS C:\Users\sesha_h2tkg8x> whoami pranav\sesha_h2tkg8x

Get information about the make and model of a computer

PS C:\Users\sesha_h2tkg8x> Get-WmiObject -Class Win32_ComputerSystem

Domain : WORKGROUP Manufacturer : Dell Inc. : Inspiron 5570 Model

Name : PRANAV

PrimaryOwnerName :

TotalPhysicalMemory : 8482582528

• Get information about the Installed applications

With format wide =3 col

```
Python 3.8.3 Core Interpreter (64-bit)
Python 3.8.3 Davelopment Libraries (64-bit)
Python 3.8.3 Davelopment Libraries (64-bit)
Python 3.8.3 Standard Library (64-bit)
Python 3
```

Find the five processes using the most memory

PS C:\Users\sesha_h2tkg8x> Get-Prod Memory Compression WhatsApp	c ess Sort-Object -Descer	ding WS select -first 5	select -ExpandProperty Pr	ocessName
Teams WhatsApp mcshield				