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```
Windows PowerShell (x86)
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\DELL> Gumi Win32_Bios | select SerialNumber

SerialNumber
-----
9B85RC2

PS C:\Users\DELL> Gumi Win32_LogicalDisk

DeviceID : C:
DriveType : 3
ProviderName :
FreeSpace : 7604017912
Size : 135670001664
VolumeName : OS

DeviceID : D:
DriveType : 3
ProviderName :
FreeSpace : 431346704384
Size : 431944101888
VolumeName :

DeviceID : E:
DriveType : 5
ProviderName :
FreeSpace :
Size :
VolumeName :

DeviceID : F:
DriveType : 3
ProviderName :
FreeSpace : 431830089728
Size : 431944101888
VolumeName :

PS C:\Users\DELL>
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Windows PowerShell (x86)
FreeSpace : 7604017912
Size : 135670001664
VolumeName : OS

DeviceID : D:
DriveType : 3
ProviderName :
FreeSpace : 431346704384
Size : 431944101888
VolumeName :

DeviceID : E:
DriveType : 5
ProviderName :
FreeSpace :
Size :
VolumeName :

DeviceID : F:
DriveType : 3
ProviderName :
FreeSpace : 431830089728
Size : 431944101888
VolumeName :

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

DHCPEnabled : True
IPAddress : {192.168.43.101, fe80::11be:4096:cc23:28cd, 2409:4070:2c9c:97eb:d984:9b8c:5ae5:3dd5, 2409:4070:2c9c:97eb:11be:4096:cc23:28cd}
DefaultIPGateway : {192.168.43.1, fe80::f819:35fd:4f39:f61f}
DNSDomain :
ServiceName : NETwN64
Description : Intel(R) Dual Band Wireless-AC 3160
Index : 2

DHCPEnabled : False
IPAddress : {192.168.56.1, fe80::6108:c060:73fd:9792}
DefaultIPGateway :
DNSDomain :
ServiceName : VBoxNetAdp
Description : VirtualBox Host-Only Ethernet Adapter
Index : 14

PS C:\Users\DELL>
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Windows PowerShell (x64)

221 12 2772 9348 5168 0 svchost
206 11 2440 8592 5268 0 svchost
764 14 5676 17492 5052 0 svchost
493 21 10936 33004 5.95 5716 14 svchost
541 25 8860 36656 5.52 5728 14 svchost
222 11 2648 6996 5740 0 svchost
247 9 1872 5948 6284 0 svchost
482 26 6100 19388 6480 0 svchost
382 13 5024 9100 7004 0 svchost
320 16 3952 20684 0.70 7372 14 svchost
197 15 6188 6812 7428 0 svchost
335 16 4740 21532 7628 0 svchost
108 7 1320 4304 9000 0 svchost
260 15 3004 12076 0.41 10048 14 svchost
266 16 2824 7456 10100 0 svchost
493 14 3984 9264 10476 0 svchost
386 20 7248 18652 10884 0 svchost
1116 15 22120 17628 10932 0 svchost
222 11 2364 10768 11420 0 svchost
143 9 1648 4928 11712 0 svchost
178 14 2092 5692 11716 0 svchost
4314 0 196 32 4 0 System
782 38 23220 2216 1.83 7640 14 SystemSettings
320 38 7908 18896 1.02 2176 14 taskhostw
352 20 5332 18356 0.42 5080 14 taskhostw
342 21 11720 61084 1.47 3344 14 Teams
518 134 323156 373164 147.77 5784 14 Teams
1858 754 197756 199360 1,051.64 6368 14 Teams
512 32 20372 67528 21.47 7076 14 Teams
300 22 23828 77272 0.25 7948 14 Teams
407 104 215676 241088 439.03 8036 14 Teams
518 187 416248 463472 562.08 8860 14 Teams
1604 37 394980 370032 376.30 9012 14 Teams
1226 69 172688 161232 98.81 9488 14 Teams
317 26 27384 58272 0.58 9536 14 Teams
556 22 12916 45540 1.09 6300 14 TextInputHost
123 8 1376 4736 1504 0 unsecapp
134 10 2156 9152 0.38 8072 14 UserOOBIBroker
703 38 20320 1908 0.91 7992 14 Video.UI
237 11 2148 7776 0.16 8524 14 WavesSvc64
113 9 2172 3824 4024 0 WavesSysSvc64
192 11 1760 5152 720 0 wininit
275 12 2644 9056 5080 14 winlogon
611 46 17632 45628 4.61 5080 14 WINWORD
199 12 4600 11616 2748 0 WmiPrvSE
174 12 3124 9856 9680 0 WmiPrvSE
725 46 24236 57548 1.16 4404 14 YourPhone

PS C:\Users\DELL>
```

```
Windows PowerShell (x64)

PS C:\Users\DELL> whoami
desktop-ce46344\de11
PS C:\Users\DELL> Get-WmiObject -Class Win32_ComputerSystem

Domain           : WORKGROUP
Manufacturer     : Dell Inc.
Model            : Inspiron 5559
Name             : DESKTOP-CE46344
PrimaryOwnerName : Windows User
TotalPhysicalMemory : 8476667904

PS C:\Users\DELL> Get-WmiObject -Class Win32_Product -ComputerName . | Format-Wide -Column 1

Python 3.9.1 Core Interpreter (64-bit)
Python 3.9.1 Tcl/Tk Support (64-bit)
Python 3.9.1 Standard Library (64-bit)
Python 3.9.1 pip Bootstrap (64-bit)
Python 3.9.1 Utility Scripts (64-bit)
Python 3.9.1 Test Suite (64-bit)
Python 3.9.1 Executables (64-bit)
Python 3.9.1 Development Libraries (64-bit)
Python 3.9.1 Documentation (64-bit)
Microsoft Office Enterprise 2007
Microsoft Office OneNote MUI (English) 2007
Microsoft Office Groove Setup Metadata MUI (English) 2007
Microsoft Office InfoPath MUI (English) 2007
Microsoft Office Access MUI (English) 2007
Microsoft Office Shared Setup Metadata MUI (English) 2007
Microsoft Office Excel MUI (English) 2007
Microsoft Office Shared 64-bit Setup Metadata MUI (English) 2007
Microsoft Office Access Setup Metadata MUI (English) 2007
Microsoft Office PowerPoint MUI (English) 2007
Microsoft Office Publisher MUI (English) 2007
Microsoft Office Outlook MUI (English) 2007
Microsoft Office Office 64-bit Components 2007
Microsoft Office Shared 64-bit MUI (English) 2007
Microsoft Office Groove MUI (English) 2007
Microsoft Office Word MUI (English) 2007
Microsoft Office Proofing (English) 2007
Microsoft Office Shared MUI (English) 2007
Microsoft Office Proof (English) 2007
Microsoft Office Proof (Spanish) 2007
Microsoft Office Proof (French) 2007
Microsoft Office File Validation Add-In
Microsoft Visual C++ 2005 Redistributable (x64)
Maxx Audio Installer (x64)
```



```
import os
subdirs = [x[0] for x in os.walk('.')]
print(subdirs)
```

```
PS F:\secure coding> & C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "f:/secure coding/lab62.py"
. ['New folder'] ['bin.py', 'dir.py', 'directory.txt', 'exp.1.txt', 'exp.2.txt', 'exp.3.txt', 'exp1.py', 'exp2.py', 'exp3.py', 'lab1.docx', 'lab1.pdf', 'lab2.docx', 'lab2.pdf', 'lab3.docx', 'lab3.pdf', 'lab4.docx', 'lab4.pdf', 'lab5.pdf', 'lab6.docx', 'lab6.py', 'lab62.py', 'lock.py', 'lockg.txt', 'sample.txt', '~$lab6.docx']
.\New folder [] []
PS F:\secure coding> & C:/Users/DELL/AppData/Local/Programs/Python/Python39/python.exe "f:/secure coding/lab62.py"
['.', '.\New folder']
PS F:\secure coding>
```

```
import os
def fast_scandir(dirname):
    subfolders= [f.path for f in os.scandir(dirname) if f.is_dir()]
    for dirname in list(subfolders):
        subfolders.extend(fast_scandir(dirname))
    return subfolders
```

```
import glob
path = 'c:\\projects\\hc2\\'
files = [f for f in glob.glob(path + "**/*.txt", recursive=True)]
for f in files:
    print(f)
folders = [f for f in glob.glob(path + "**/", recursive=True)]
for f in folders:
    print(f)
with open('your_file.txt', 'w') as f:
    for item in f:
        f.write("%s\n" % item)
```

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PS C:\Users\DELL> $fso = new-object -ComObject scripting.filesystemobject
PS C:\Users\DELL>
PS C:\Users\DELL> $fso.CreateFolder("C:\test1")

Path           : C:\test1
Name            : test1
ShortPath       : C:\test1
ShortName       : test1
Drive           : System.__ComObject
ParentFolder    : System.__ComObject
Attributes      : 16
DateCreated     : 25/03/2021 17:13:46
DateLastModified : 25/03/2021 17:13:46
DateLastAccessed : 25/03/2021 17:13:46
Type            : File folder
IsRootFolder    : False
Size            : 0
SubFolders      : System.__ComObject
Files           : System.__ComObject

PS C:\Users\DELL> 
```