## **SECURE CODING LAB 6**

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- Write a python script to get all the file names in the current directory
- Write a python script to get all the directory names in the current directory
- Write a python script to get all the directory and subdirectory names in the current directory
- Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory
- Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current drive and write it to a text file.
- Write a python script which creates four new files in the current directory using Powershell.
  - Python script to fetch names of all files and directories in a folder

```
import os
arr= os.listdir("C:\\Users\\allak\Desktop/lab6.py (3.9.2)

print(arr)

>>>
['18BCN77033 Tejeswar.pdf', 'blog website', 'cleanmybin.py', 'desktop.ini', 'Discord.lnk', 'dummy folder', 'lab6.py', 'MBA chaiwala story (18BCN7033 Tejeswar Allaka).mp3', 'moo.py', 'network programming', 'replic ate.py', 'resume.pdf', 'simplex.m', 'Ubisoft Connect.lnk']
>>>
```

Python script to fetch all sub directories in a folder

```
import os
 def run fast scandir(dir, ext):
                                                                                                                                                   # dir: str, ext: list
                   subfolders, files = [], []
                   for f in os.scandir(dir):
                                    if f.is dir():
                                                      subfolders.append(f.path)
                                    if f.is file():
                                                      if os.path.splitext(f.name)[1].lower() in ext:
                                                                        files.append(f.path)
                   for dir in list(subfolders):
                                     sf, f = run fast scandir(dir, ext)
                                    subfolders.extend(sf)
                                     files.extend(f)
                   return subfolders, files
 subfolders, files = run fast scandir("C:\\Users\\allak\\Desktop", ["."])
['C:\\Users\allak\\Desktop\\blog website', 'C:\\Users\allak\\Desktop\\network programming', 'C:\\Users\allak\\Desktop\\blog website\\assets', 'C:\\Users\allak\\Desktop\\blog website\\assets', 'C:\\Users\allak\\Desktop\\blog website\\assets', 'C:\\Users\allak\\Desktop\\blog website\\assets', 'C:\\Users\allak\\Desktop\\blog website\\assets', 'C:\\Users\\allak\\Desktop\\blog website\\assets', 'C:\\users\\allak\\blog website\\assets', 'C:\\users\\allak\\blog website\\allak\\blog website\allak\\allak\\blog website\allak\\blog we
blog website\\js', 'C:\\Users\\allak\\Desktop\\blog website\\css\\_sass', 'C:\\Users\\allak\\Desktop\\blog website\\css\\_sass'\klis
```

Recursively fetch files and sub directories in a folder

I'C:\\Users\\allak\\Desktop\\18BCN7033 Tejeswar.pdf', 'C:\\Users\\allak\\Desktop\\blog website', 'C:\\Users\\allak\\Desktop\\cleanmy bin.py', 'C:\\Users\\allak\\Desktop\\desktop\\cleanmy bin.py', 'C:\\Users\\allak\\Desktop\\desk

• Recursively fetch files and sub directories in a folder and give output in a txt file

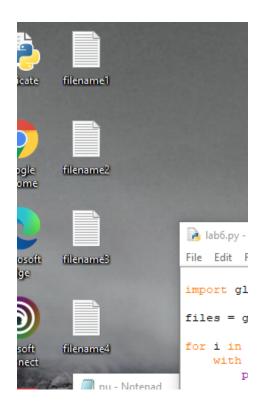
• Python script to create 4 files using powershell

```
import glob

files = glob.glob("C:\\Users\\allak\\Desktop" + '/**/*', recursive=True)

for i in range(1,4):
    with open("filename"+i"e.txt", 'w') as f:
        print(files, file=f)
```

## PS C:\Users\allak\Desktop> py lab6.py



## **FEW EXTRA COMMAND**

```
PS C:\Users\allak\Desktop> Gwmi Win32_Bios | select SerialNumber
SerialNumber
-----5CD8323YQ4
```

```
PS C:\Users\allak\Desktop> Gwmi Win32_LogicalDisk
             : C:
DeviceID
DriveType
ProviderName :
FreeSpace : 61953900544
            : 126710968320
Size
VolumeName : WINDOWS
DeviceID
           : D:
DriveType
            : 3
ProviderName :
FreeSpace :
             : 88261632000
             : 985453817856
Size
VolumeName : DATA
          : E:
: 3
DeviceID
DriveType
ProviderName :
FreeSpace : 1759547392
             : 14748217344
Size
VolumeName : RECOVERY
```

```
Windows PowerShell
                                          Win32_ComputerSystem
 SCreationClassName
 SName
                                          LAPTOP-MO96SVVG
Description
ExecutablePath
                                          SecurityHealthSystray.exe
C:\Windows\System32\SecurityHealthSystray.exe
ExecutionState
                                          14760
Handle:
HandleCount
InstallDate
                                          184
                                          781250
1380
200
KernelModeTime
MaximumWorkingSetSize
MinimumWorkingSetSize
                                          SecurityHealthSystray.exe
Name
                                          Win32_OperatingSystem
                                          winsz_operatingSystem
Microsoft Windows 10 Home Single Language|C:\WINDOWS|\
76
2414
3122
2128
5848
OSCreationClassName
OSName
OtherOperationCount
OtherTransferCount
PageFaults
PageFileUsage
ParentProcessId
                                          2568
2203435364352
PeakPageFileUsage
PeakVirtualSize`
PeakWorkingSetSize
                                          9792
Priority
                                          8
                                          2179072
14760
PrivatePageCount
ProcessId
QuotaNonPagedPoolUsage
                                          10
QuotaPagedPoolUsage
                                          149
QuotaPeakNonPagedPoolUsage
QuotaPeakPagedPoolUsage
                                          12
167
ReadOperationCount
ReadTransferCount
SessionId
                                           5184
Status
TerminationDate
ThreadCount
                                          4
                                          312500
2203429072896
10.0.19042
4460544
UserModeTime
VirtualSize
WindowsVersion
WorkingSetSize
WriteOperationCount
                                          Ó
WriteTransferCount
                                          0
                                          LAPTOP-MO96SVVG
PSComputerName |
                                          SecurityHealthSystray.exe
184
ProcessName
Handles |
                                    Get-WMIObject Win32_NetworkAdapterConfiguration | where{$_.IPEnabled -eq
DHCPEnabled
IPAddress
                    True {192.168.29.52, fe80::d094:5246:b40f:dbef, 2405:201:c000:a85e:34c6:a543:9936:4809, 2405:201:c000:a85e:d094:5246:b40f:dbef} {192.168.29.1, fe80::461c:a8ff:fe79:28e1}
DefaultIPGateway :
DNSDomain
                    Netwtw08
Intel(R) Wireless-AC 9560 160MHz
ServiceName
Description
Index
DHCPEnabled
                    False {192.168.56.1, fe80::e4aa:2e5f:3069:d28e}
DHCPEHADTEU
IPAddress
DefaultIPGateway
DNSDomain
ServiceName
                    VBoxNetAdp
VirtualBox Host-Only Ethernet Adapter
14
 escription
Index
```

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PS C:\Us	ers\allak	\Desktop>	Get-Process	Where	{ \$ha	ndles -gt 500 }   Sort handles   Format-Table
Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI ProcessName
502	26	6344	15000		5416	0 spoolsv
502	15	4376	11116		3968	0 svchost
505	18	9464	17896	12.22	5092	1 ctfmon
505	28	201968	82492	2.59	15384	1 chrome
515	1166	8160	13240	10.55	5952	1 SynTPEnh
525	23	7012	10792		4856	0 svchost
529	45	226212	274532	137.16	15428	1 msedge
535	27	75388	25404	0.64	6240	1 NVIDĪA Share
539	29	30892	28480	0.55	18396	1 ApplicationFrameHost
544	34	57980	56508		16548	1 Discord
545	58	397124	481380	408.42		1 msedge
546	34	31180	55484	75.66	11992	1 msedge
558	31	51428	78856		21792	0 svchost
562	44	42384	25516		12384	0 HPSupportSolutionsFrameworkService
565	24	25924	25696		16036	0 HPCommRecovery
574	25	20516	27124		6064	0 svchost
590	31	71220	1636	0.50		1 Calculator
609	26	12208	3936	5.09	2508	1 SettingSyncHost
609	26	63380	28148	5.38	12924	1 TextInputHost
620	45	87304	2324	0.53	17860	1 Microsoft.Photos
624	79	30368	15772	3.44	10784	1 NVIDIA Web Helper
626	28	11972	33052	4.42	4492	1 svchost
631	16	9176	14200		3236	0 svchost
668	38	14076	29152	2.75	10068	1 McUICnt
668	27	11796	31928	2.03	9736	1 RuntimeBroker
677	33	76356	57380	2.00	8880	1 StartMenuExperienceHost
679	30	23800	26848	1.25	268	1 HxTsr
682	40	12236	25016		6300	0 nvcontainer
688	32	32384	31116		3296	1 NVDisplay.Container
690	27	322256	302088	11.30		0 mcshield
694	20	8524	25604	4.80	4376	1 sihost
704	33	67272	2364	0 34	13888	1 GameRar

PS C:\Users\allak\Desktop> PS												
Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI ProcessName						
326	15	5168	5632		3064	0 AppHelperCap						
539	29	30892	28480	0.55	18396	1 ApplicationFrameHost						
204	12	8148	13404	0.36	21032	0 audiodg						
237	$\overline{16}$	4324	20040	0.05	7152	1 backgroundTaskHost						
299	19	15388	27844	0.11	10652	1 backgroundTaskHost						
590	31	71220	1636	0.50	18580	1 Calculator						
228	14	6428	11816	0.14	2912	1 chrome						
210	14	11744	20120	0.16	10400	1 chrome						
203	12	6656	11864	0.33	13824	1 chrome						
313	21	13656	29040	2.92	15364	1 chrome						
505	28	201968	82492	2.59	15384	1 chrome						
232	17	80812	101304	7.34	15792	1 chrome						
225	15	16860	29188	0.31	15896	1 chrome						
224	15	19076	31968	3.61	15908	1 chrome						
230	16	26624	41652	0.94	15916	1 chrome						
224	15	16248	28004	0.25	15944	1 chrome						
1504	52	173272	202912	26.48	16204	1 chrome						
193	9	1708	3268	0.06	16224	1 chrome						
198	13	8368	12876	0.19	17816	1 chrome						
141	7	1512	5904	0.19	18272	1 CompPkgSrv						
100	7	6344	1516	0.02	1900	1 conhosť						
97	7	6216	1284		5200	0 conhost						
100	7	6340	1052	0.28	10252	1 conhost						
97	7	6220	1576		11148	0 conhost						

```
PS C:\Users\allak\Desktop> Get-WmiObject -Class Win32_BIOS -ComputerName
SMBIOSBIOSVersion: F.12
Manufacturer
                                  : AMI
                                     : F.12
Name
                                   : 5CD8323YQ4
SerialNumber
                                     : HPQOEM - 1072009
Version
PS C:\Users\allak\Desktop> whoami
lanton-mo96syvg\allak
PS C:\Users\allak\Desktop> Get-WmiObject -Class Win32_ComputerSystem
Domain
                                             : WORKGROUP
Manufacturer
                                             : HP
                                             : OMEN by HP Laptop 15-dc0xxx
Model
                                             : LAPTOP-MO96SVVG
Name
PrimaryOwnerName : allakarahul@gmail.com
TotalPhysicalMemory : 17052819456
PS C:\Users\allak\Desktop> Get-WmiObject -Class Win32_Product -ComputerName . | Format-Wide -Column
Python 3.9.2 Add to Path (64-bit)
Python 3.9.2 Utility Scripts (64-bit)
Python 3.9.2 Core Interpreter (64-bit)
Python 3.9.2 Tcl/Tk Support (64-bit)
BlueJ
BlueJ
Python 3.9.2 Test Suite (64-bit)
Python 3.9.2 pip Bootstrap (64-bit)
Python 3.9.2 Standard Library (64-bit)
Python 3.9.2 Documentation (64-bit)
Python 3.9.2 Executables (64-bit)
Python 3.9.2 Development Libraries (64-bit)
Intel XTU SDK
Intel XIU SDK

HP Recovery Manager

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

Microsoft Visual C++ 2010 x64 Redistributable - 10.0.40219

HP ePrint SW

Microsoft Visual C++ 2010 x86 Redistributable - 10.0.40219

Microsoft Visual C++ 2013 x86 Minimum Runtime - 12.0.21005

Microsoft Visual C++ 2013 x86 Additional Runtime - 12.0.21005
HP Support Solutions Framework
HP Support
Intel(R) Rapid Storage Technology
HP ePrint SW
HP ePrint SW
EP ePrint SW
EP ePrint SW
```

HP Customer Experience Enhancements HP Registration Service