CSE-2010

Secure Coding(L23 + L24)

Lab - 6

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Reg no :- 18BCN7122

Find the first five processes using the most memory

```
PS C:\Users\Shafiq Ahmed> ps | sort -p ws | select -last 5

Handles  NPM(K)    PM(K)     WS(K)    CPU(s)     Id  SI ProcessName
-------  ------    -----     -----    ------     --  -- -----------
    511      33   189396    244020     39.08  17860   1 chrome
    484      42   218784    247272    223.39  17984   1 chrome
   1526      38   355428    379104    144.70   9736   1 chrome
    663      41   337724    393624    170.70  19416   1 chrome
    536     197   429136    442696    721.02  13976   1 Teams


PS C:\Users\Shafiq Ahmed>
```

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

```
PS C:\Users\Shafiq Ahmed> python
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> from os import listdir
>>> from os.path import isfile, join
>>> mypath=os.getcwd()
>>> files=[f for f in listdir(mypath) if isfile(join(mypath, f))]
>>> print(files)
['#Task-2 K-Means Clustering (Shafiq Ahmed).ipynb', '#Task-3 Decision_Tree(Shafiq Ahmed).ipynb', '.emulator_console_auth
_token', '.gitconfig', '.packettracer', 'netdata.txt', 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2', 'NTUSER.DAT{5
3b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer0000000000000
0000001.regtrans-ms', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000002.regtrans-ms', 'n
tuser.ini', 'Simple Linear Regression TASK#1 .ipynb', 'types.txt']
>>>
```

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

```
PS C:\Users\Shafiq Ahmed> python
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> mypath=os.getcwd()
>>> print([dir for dir in os.listdir(mypath) if os.path.isdir(os.path.join(mypath, dir)) ])
['.android', '.AndroidStudio3.6', '.atom', '.cache', '.gradle', '.idea', '.IdeaIC2019.3', '.ipynb_checkpoints', '.ipytho
n', '.jupyter', '.nbi', '.ssh', '.VirtualBox', '.vscode', '.zenmap', '3D Objects', 'anaconda3', 'AndroidStudioProjects',
 'AppData', 'Application Data', 'Cisco Packet Tracer 7.3.0', 'Contacts', 'Cookies', 'Desktop', 'Documents', 'Downloads',
 'Favorites', 'IdeaProjects', 'IntelGraphicsProfiles', 'Links', 'Local Settings', 'MicrosoftEdgeBackups', 'Music', 'My D
ocuments', 'NetHood', 'OneDrive', 'Pictures', 'PrintHood', 'Recent', 'Saved Games', 'Searches', 'SendTo', 'Start Menu',
'Templates', 'Videos', 'VirtualBox VMs']
>>>
```

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

```
PS D:\Sem-6 Win(2020-21)\Secure Coding A> cd ..
PS D:\Sem-6 Win(2020-21)> python
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> for root, dirs, files in os.walk("."):
...     for dirname in dirs:
...             print(dirname)
...
Advanced CS H
Anthropogy C
Critical thinking E
ITC G
Mobile Application B
Numerical Methods F
Secure Coding A
STS-Java Object Oriented D
CAT1
>>>
```
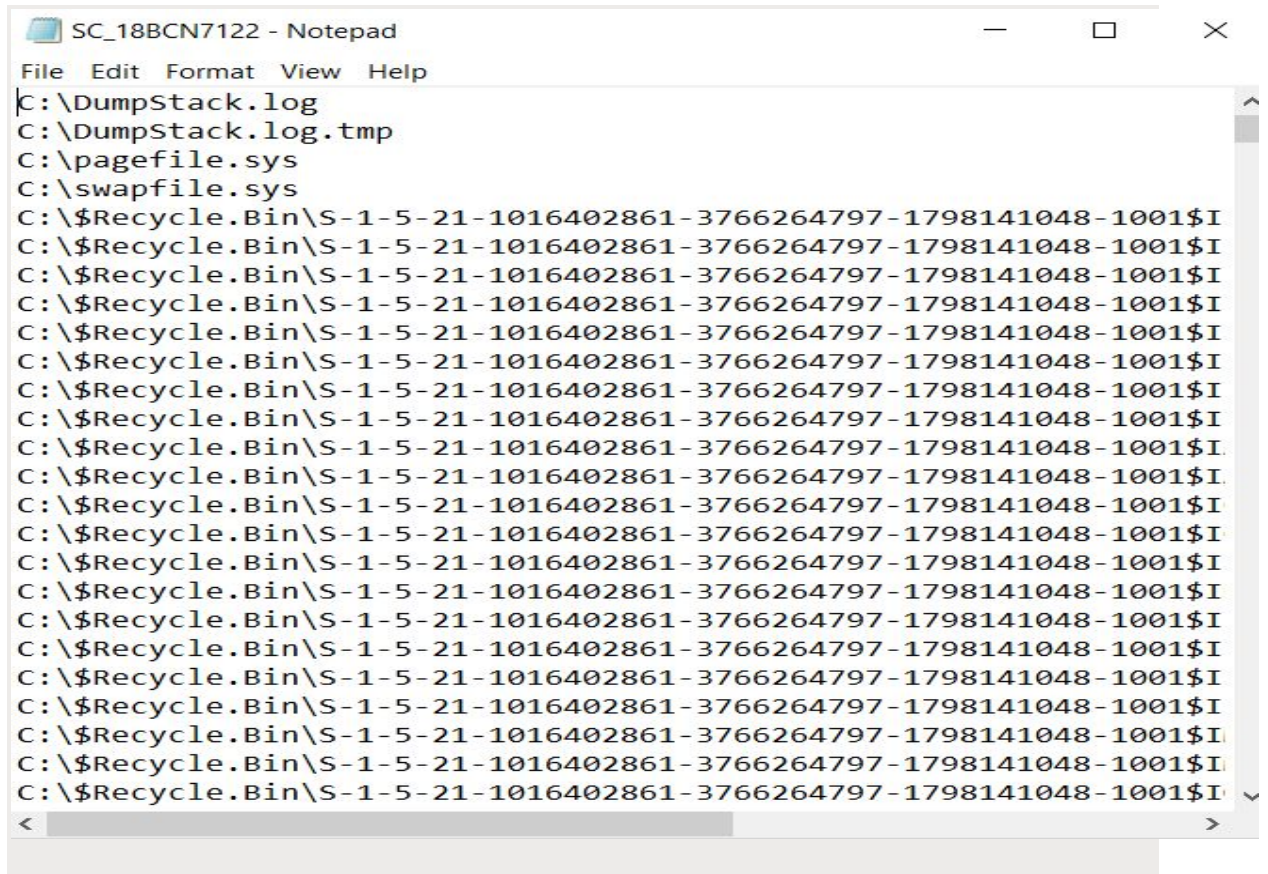
Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory
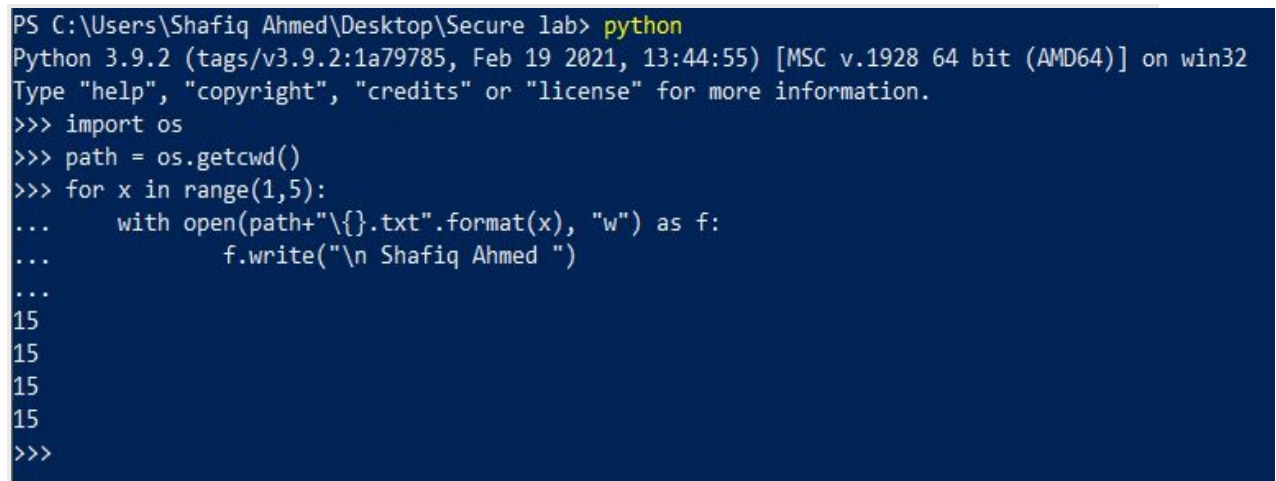
```
PS C:\Users\Shafiq Ahmed\Desktop\Secure lab> python
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> path=os.getcwd()
>>> filelist = []
>>> for root, dirs, files in os.walk(path):
...     for file in files:
...             filelist.append(os.path.join(root,file))
...
>>> for name in filelist:
...     print(name)
...
C:\Users\Shafiq Ahmed\Desktop\Secure lab\18BCN7122_lab-1_SC.pdf
C:\Users\Shafiq Ahmed\Desktop\Secure lab\18BCN7122_Lab-2_SC.pdf
C:\Users\Shafiq Ahmed\Desktop\Secure lab\18BCN7122_Lab-3_SC.pdf
C:\Users\Shafiq Ahmed\Desktop\Secure lab\18BCN7122_LAB-5_SC.pdf
>>>
```

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.

```
PS C:\Users\Shafiq Ahmed\Desktop\Secure lab> python
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> import pathlib
>>> drive =pathlib.Path.home().drive
>>> path =drive+"\\"
>>> with open("SC_18BCN7122.txt", "w", encoding="utf-8") as filewrite:
...     for r, d, f in os.walk(path):
...             for SC_18BCN7122 in f:
...                     filewrite.write(f"{r + SC_18BCN7122}\n")
```

```
SC_18BCN7122 - Notepad                                    —    □    ×
File  Edit  Format  View  Help
C:\DumpStack.log
C:\DumpStack.log.tmp
C:\pagefile.sys
C:\swapfile.sys
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I.
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I.
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I.
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I.
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$I
```

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


```
PS C:\Users\Shafiq Ahmed\Desktop\Secure lab> python
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import os
>>> path = os.getcwd()
>>> for x in range(1,5):
...     with open(path+"\{}.txt".format(x), "w") as f:
...         f.write("\n Shafiq Ahmed ")
...
15
15
15
15
>>>
```

Name	Date modified	Type	Size
SC lab-1	14-03-2021 00:02	File folder	
SC lab-2	14-03-2021 00:02	File folder	
SC lab-3	14-03-2021 00:02	File folder	
SC lab-4	14-03-2021 00:02	File folder	
SC lab-5	14-03-2021 00:02	File folder	
1	14-03-2021 00:31	Text Document	1 KB
2	14-03-2021 00:31	Text Document	1 KB
3	14-03-2021 00:31	Text Document	1 KB
4	14-03-2021 00:31	Text Document	1 KB

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T JDBC material

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1 - Notepad

File   Edit   Format   View   Help

Shafiq Ahmed