CSE-2010

Secure Coding(L23 + L24) Lab - 6

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Find the first five processes using the most

memory

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

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)      Id  SI ProcessName
-------  ------    -----      -----     ------      --  -- -----------
   1146      31   318892     197860     182.83    2096   1 msedge
   1562      96   131388     208888      11.23    7944   1 SearchUI
      0       0      796     243408                2956   0 Memory Compression
    509     153   326996     306008     524.64   13400   1 Teams
    735      33   277600     330140     515.72   15504   1 msedge


PS C:\Users\harib>
```

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

```
>>> import os
>>> from osimport listdir
  File "<stdin>", line 1
    from osimport listdir
                 ^
SyntaxError: invalid syntax
>>> 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)
['.condarc', '.packettracer', '35.154.175.243', 'cd', 'netdata.txt', 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2',
 'NTUSER.DAT{0c91dd68-da3c-11e9-8c58-e031c2890201}.TM.blf', 'NTUSER.DAT{0c91dd68-da3c-11e9-8c58-e031c2890201}.TMContaine
r00000000000000000001.regtrans-ms', 'NTUSER.DAT{0c91dd68-da3c-11e9-8c58-e031c2890201}.TMContainer00000000000000000002.re
gtrans-ms', 'ntuser.ini', 'o', 'types.txt']
>>>
```

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

```
>>> import os
>>> mypath=os.getcwd()
>>> print([dir for dir in os.listdir(mypath) if os.path.isdir(os.path.join(mypath,dir))])
['.anaconda', '.android', '.conda', '.cordova', '.dotnet', '.eclipse', '.idlerc', '.ipynb_checkpoints', '.ipython', '.jm
c', '.jupyter', '.matplotlib', '.p2', '.spyder-py3', '.tooling', '.VirtualBox', '.zenmap', '3D Objects', 'Anaconda3', 'A
naconda Projects', 'AppData', 'Application Data', 'Cisco Packet Tracer 7.2', 'Contacts', 'Cookies', 'Desktop', 'Documents
', 'Downloads', 'eclipse', 'eclipse-workspace', 'Favorites', 'IntelGraphicsProfiles', 'Links', 'Local Settings', 'Micros
oftEdgeBackups', 'Music', 'My Documents', 'NetHood', 'OneDrive', 'Pictures', 'PrintHood', 'Recent', 'Saved Games', 'Send
To', 'SLAB', 'source', 'Start Menu', 'Templates', 'Videos', 'VirtualBox VMs']
>>>
```

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

```
>>> import os
>>> for root,dirs,files in os.walk(".",):
...     for dirname in dirs:
...             print(dirname)
...
.anaconda
.android
.conda
.cordova
.dotnet
.eclipse
.idlerc
.ipynb_checkpoints
.ipython
.jmc
.jupyter
.matplotlib
.p2
.spyder-py3
.tooling
.VirtualBox
.zenmap
3D Objects
Anaconda3
AnacondaProjects
AppData
Application Data
Cisco Packet Tracer 7.2
Contacts
Cookies
Desktop
Documents
Downloads
eclipse
eclipse-workspace
Favorites
IntelGraphicsProfiles
```

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

```
>>> 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\harib\.condarc
C:\Users\harib\.packettracer
```

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

```
>>> import os
>>> import pathlib
>>> drive=pathlib.Path.home().drive
>>> path=drive+"\\"
>>> with open("SC_18BCN7133.txt","w",encoding="utf-8") as
 filewrite:
...     for r,d,f in os.walk(path):
...             for SC_18BCN7133 in f:
...                     filwwrite.write(f"{r+SC_18BCN7133
}\n")
...
```

```
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.

```
>>> import os
>>> path= os.getcwd()
>>> for x in range(1,5):
...     with open(path+"\{}.txt".format(x),"w") as f:
...             f.write("\n harsha vardhan")
...
16
16
16
16
```