

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 os import listdir
  File "<stdin>", line 1
    from os import 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', '.packetracer', '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}.TMContainer000000000000000002.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', '.jupyter', '.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', 'Links', 'Local Settings', 'MicrosoftEdgeBackups', 'Music', 'My Documents', 'NetHood', 'OneDrive', 'Pictures', 'PrintHood', 'Recent', 'Saved Games', 'SendTo', '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
iata
```

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$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
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C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
C:\$Recycle.Bin\S-1-5-21-1016402861-3766264797-1798141048-1001$1
```

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
```