

Secure Coding (CSE 2010)

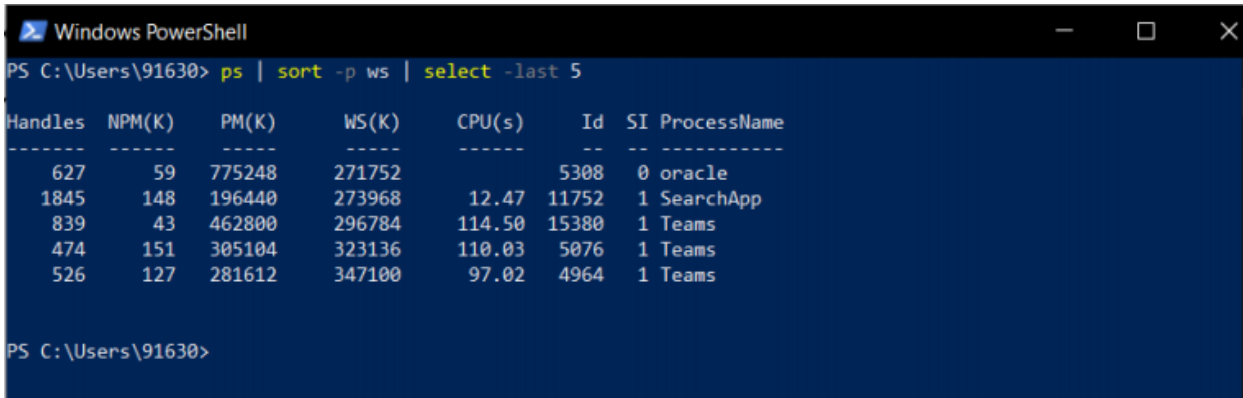
LAB Experiment: 6

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Task 1:

Find the five processes using the most memory



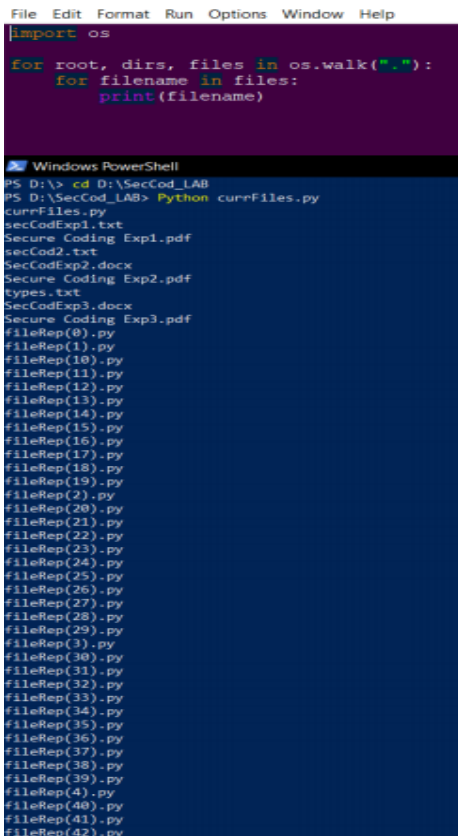
```
Windows PowerShell
PS C:\Users\91630> ps | sort -p ws | select -last 5
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
627	59	775248	271752		5308	0	oracle
1845	148	196440	273968	12.47	11752	1	SearchApp
839	43	462800	296784	114.50	15380	1	Teams
474	151	305104	323136	110.03	5076	1	Teams
526	127	281612	347100	97.02	4964	1	Teams

```
PS C:\Users\91630>
```

Task 2:

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



```
File Edit Format Run Options Window Help
import os

for root, dirs, files in os.walk("."):
    for filename in files:
        print(filename)
```

```
Windows PowerShell
PS D:\> cd D:\SecCod_LAB
PS D:\SecCod_LAB> Python currFiles.py
currFiles.py
secCodExp1.txt
Secure Coding Exp1.pdf
secCod2.txt
SecCodExp2.docx
Secure Coding Exp2.pdf
types.txt
SecCodExp3.docx
Secure Coding Exp3.pdf
fileRep(0).py
fileRep(1).py
fileRep(10).py
fileRep(11).py
fileRep(12).py
fileRep(13).py
fileRep(14).py
fileRep(15).py
fileRep(16).py
fileRep(17).py
fileRep(18).py
fileRep(19).py
fileRep(2).py
fileRep(20).py
fileRep(21).py
fileRep(22).py
fileRep(23).py
fileRep(24).py
fileRep(25).py
fileRep(26).py
fileRep(27).py
fileRep(28).py
fileRep(29).py
fileRep(3).py
fileRep(30).py
fileRep(31).py
fileRep(32).py
fileRep(33).py
fileRep(34).py
fileRep(35).py
fileRep(36).py
fileRep(37).py
fileRep(38).py
fileRep(39).py
fileRep(4).py
fileRep(40).py
fileRep(41).py
fileRep(42).py
```

Task 3

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

```
import os

for root, dirs, files in os.walk("."):
    for direct in dirs:
        print(direct)
```

```
Windows PowerShell
PS D:\SecCod_LAB> cd..
PS D:\> Python currDir.py
$RECYCLE.BIN
Business Analytics
Certificates
Computer Networks LAB(CSE3003)
Computer Networks(CSE3003)
Computer Organization and Architecture (ECE2002)
Database Management System(CSE2007)
DBMS LAB
EpicLibrary
EpicLibrary_tej
JavaP
LinearRegression-main
Machine Learning(CSE3008)
ML LAB
Movies
msdownload.tmp
plan
Recovery
SecCod_LAB
Secure Coding (CSE2010)
SEMESTER-3
Shabnam NEETPG
SteamLibrary
System Volume Information
TV Series
WATCH_DOGS2
S-1-5-21-3071136278-1406774557-1471719346-1001
PROJECT
lab1
lab2
lab3
lab4
LAB1
LAB2
LAB3
LAB4
AbsoluteDrift
Fortnite
HITMAN
Watchdogs2
.egstore
absolutedrift_Data
Pending
Managed
```

Task 4

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

[illegible]

Task 5

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 subprocess

for dirpath, dirs, files in os.walk("."):
    path = dirpath.split('/')
    print ("%s, (%s)" % (path, os.path.basename(dirpath)))
    for f in files:
        print ("%s, len(path)*'/'" % (f, f))

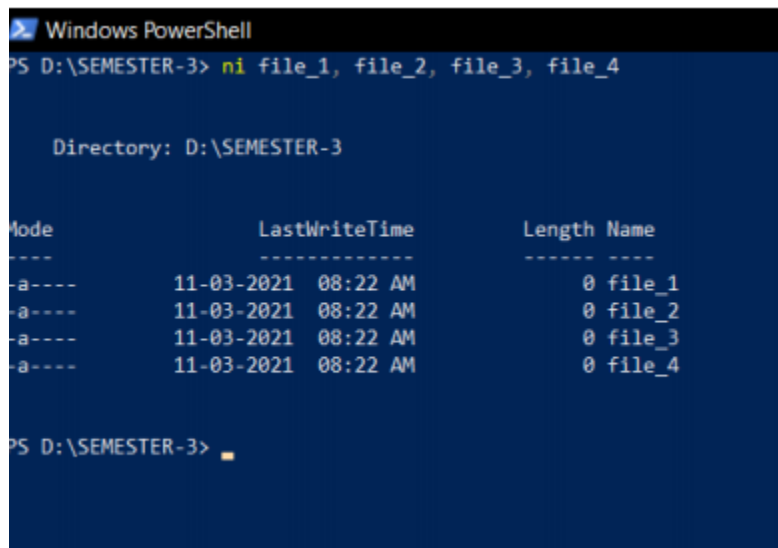
with open("output_recursive.txt", "w") as output:
    subprocess.call(["python", "./script.py"], stdout=output);
```

```
Windows PowerShell
PS D:\SEMESTER-3> Python subdirs_recursive_txt.py

[ . ]
-- subdirs.py
-- subdirs_recursive.py
-- subdirs_recursive_txt.py
-- [ 198CI7852_OOPS_lab ]
-- Lab10report.docx
-- Lab10_198CI7852.pdf
-- Lab11report.docx
-- Lab11_198CI7852.pdf
-- Lab12report.docx
-- Lab12_198CI7852.pdf
-- Lab1_198CI7852.pdf
-- Lab1_Report.docx
-- Lab2_198CI7852.pdf
-- Lab2_Report.docx
-- Lab3_198CI7852.pdf
-- Lab3_report.docx
-- Lab4_198CI7852.pdf
-- Lab4_Report.docx
-- Lab5report.docx
-- Lab5_198CI7852.pdf
-- Lab6_198CI7852.pdf
-- Lab6_report.docx
-- Lab7report.docx
-- Lab7_198CI7852.pdf
-- Lab8Report.docx
-- Lab8_198CI7852.pdf
-- Lab9report.docx
-- Lab9_198CI7852.pdf
-- [ Lab1 ]
-- InchConversion.class
-- JobPricing.class
-- JobPricing.java
-- Lease.class
-- Lease.java
-- PaintCalculator.class
-- PaintCalculator.java
-- Percentages.class
-- Percentages.java
-- Percentages2.class
-- Percentages2.java
-- ShowStudent.class
-- ShowStudent.java
-- ShowStudent2.class
-- ShowStudent2.java
-- Student.class
-- Student.java
-- TestIease.class
-- TestIease.java
-- [ Lab10 ]
-- JPhotoFrame$1.class
-- JPhotoFrame.class
-- JPhotoFrame.java
```

Task 6

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



```
Windows PowerShell
PS D:\SEMESTER-3> ni file_1, file_2, file_3, file_4

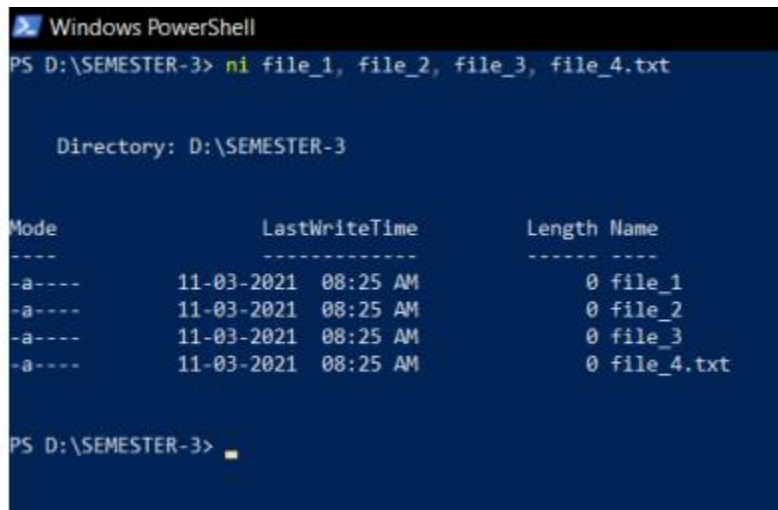
Directory: D:\SEMESTER-3

Mode                LastWriteTime         Length Name
----                -
-a----          11-03-2021   08:22 AM             0 file_1
-a----          11-03-2021   08:22 AM             0 file_2
-a----          11-03-2021   08:22 AM             0 file_3
-a----          11-03-2021   08:22 AM             0 file_4

PS D:\SEMESTER-3>
```

Task 7

To create .txt files, add .txt extension at the end of the command



```
Windows PowerShell
PS D:\SEMESTER-3> ni file_1, file_2, file_3, file_4.txt

Directory: D:\SEMESTER-3

Mode                LastWriteTime         Length Name
----                -
-a----          11-03-2021   08:25 AM             0 file_1
-a----          11-03-2021   08:25 AM             0 file_2
-a----          11-03-2021   08:25 AM             0 file_3
-a----          11-03-2021   08:25 AM             0 file_4.txt

PS D:\SEMESTER-3>
```