CSE 2010 || Secure Coding
WIN 20-21

Lab: 6

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Topic: Introduction to Cross-site Scripting

Tasks:

Exercise

• Find the first five processes using the most memory

Assignment

• 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.

Note: Sir at first I thought I have to run it with python scripy in cmd, then I got to know that I can run python in PowerShell directly, so first experiments are done in cmd and last are done in PowerShell.

Exercise:

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

Handles  NPM(K)    PM(K)     WS(K)     CPU(s)     Id  SI ProcessName
-------  ------    -----     -----     ------     --  -- -----------
   1638      38   354112    255192     896.77  35128  26 Teams
   1994      45   428084    262140     534.08  37408  26 chrome
    442     159   364320    315216   1,055.16  32704  26 Teams
    524     196   446496    359944   1,881.23  23832  26 Teams
      0       0     3736    382204              3260   0 Memory Compression


PS C:\Users\rbchs>
```

A1

```
C:\Users\rbchs\Desktop\SecureCoding>python3 filelist.py
filelist.py
Lab1_19.doc
Lab1_19BCN7122.pdf
1.PNG
2.PNG
3.PNG
4.PNG
5.PNG
6.PNG
7.PNG
19BCN7122SS1.docx
19BCN7122SS10.txt
19BCN7122SS2.docx
19BCN7122SS3.docx
19BCN7122SS4.docx
19BCN7122SS5.docx
19BCN7122SS6.txt
19BCN7122SS7.txt
19BCN7122SS8.txt
19BCN7122SS9.txt
19BCN7122SS11.txt
19BCN7122SS12.txt
19BCN7122SS13.txt
19BCN7122SS14.txt
19BCN7122SS15.txt
19BCN7122SS21.docx
19BCN7122SS22.docx
19BCN7122SS23.docx
19BCN7122SS24.docx
19BCN7122SS25.docx
19BCN7122SS26.txt
```

A2

```
C:\Users\rbchs\Desktop\SecureCoding>python3 dirname.py
d- Lab 1
d- Lab 3
d- LAB 5
d- LAB2
d- Lab6
d- Lab_4
```

A3:

```
C:\Users\rbchs\Desktop\SecureCoding>python dirlist.py
c:\Users\rbchs\Desktop\SecureCoding\Lab 1
c:\Users\rbchs\Desktop\SecureCoding\Lab 3
c:\Users\rbchs\Desktop\SecureCoding\LAB 5
c:\Users\rbchs\Desktop\SecureCoding\LAB2
c:\Users\rbchs\Desktop\SecureCoding\Lab6
c:\Users\rbchs\Desktop\SecureCoding\Lab_4
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\SF1
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\SF1\SF2
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\SF1\SF2\SF3
c:\Users\rbchs\Desktop\SecureCoding\Lab_4\build
c:\Users\rbchs\Desktop\SecureCoding\Lab_4\__pycache__
c:\Users\rbchs\Desktop\SecureCoding\Lab_4\build\pyphello
```

A4:

```
C:\Users\rbchs\Desktop\SecureCoding>filelist.py

C:\Users\rbchs\Desktop\SecureCoding>python3 tskf.py
c:\Users\rbchs\Desktop\SecureCoding\dirlist.py
c:\Users\rbchs\Desktop\SecureCoding\dirname.py
c:\Users\rbchs\Desktop\SecureCoding\filelist.py
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\1.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\2.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\3.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\4.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\5.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\6.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\7.PNG
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS1.docx
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS10.txt
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS2.docx
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS3.docx
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS4.docx
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS5.docx
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS6.txt
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS7.txt
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS8.txt
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\19BCN7122SS9.txt
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\SF1\19BCN7122SS11.txt
c:\Users\rbchs\Desktop\SecureCoding\Lab 1\RF\SF1\19BCN7122SS12.txt
```

A5:

```
PS C:\Users\rbchs> cd desktop/securecoding
PS C:\Users\rbchs\desktop\securecoding> 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("file.txt", "w", encoding="utf-8") as filewrite:
...     for r, d, f in os.walk(path):
...         for file in f:
...             filewrite.write(f"{r + file}\n")
...
```

```
file.txt - Notepad
File   Edit   Format   View   Help
C:\.log
C:\AVScanner.ini
C:\hiberfil.sys
C:\pagefile.sys
C:\swapfile.sys
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$I34213N.txt
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$I83NPHK.60x64_Multilingual
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IAK65DP.ai
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IEBK0M3.docx
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IIATIXQ.pdf
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IJZQ5WR.lnk
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$ILIXO6U.PNG
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IMLBXA8.exe
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$INCFBN7.crx
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IOMHDZ3.txt
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IOWVCW3.lnk
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IP81PPN
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IQG4OUK.png
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IQPEMRY.png
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IRDEDE6.png
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IRQ23AD.exe
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IUNQLX9.lnk
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IURXBY6.12
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IV2RKX4.txt
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IV5CBL9.lnk
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IVAC5S2.txt
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IXBM3UI.html
C:\$Recycle.Bin\S-1-5-21-3737892584-3028569538-491490355-1002$IYVBN54.PNG

Ln 1, Col 1          100%    Windows (CRLF)    UTF-8
```

A6:

```
PS C:\Users\rbchs> cd desktop
PS C:\Users\rbchs\desktop> cd securecoding
PS C:\Users\rbchs\desktop\securecoding> 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 this my files")
...
15
15
15
15
>>>
```

Lab 1	08-02-2021 22:20	File folder	
Lab 3	02-03-2021 14:21	File folder	
LAB 5	05-03-2021 21:32	File folder	
Lab_4	06-03-2021 12:14	File folder	
LAB2	13-02-2021 13:35	File folder	
Lab6	12-03-2021 19:50	File folder	
1.txt	12-03-2021 19:48	Text Document	1 KB
2.txt	12-03-2021 19:48	Text Document	1 KB
3.txt	12-03-2021 19:48	Text Document	1 KB
4.txt	12-03-2021 19:48	Text Document	1 KB