

# SECURE CODING CSE2010

## LAB-6

CH.SAI SUMEDH

REG NO:-18BCN7092

SLOT:-L39+L40

## Exercise

- Find the first five processes using the most memory

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

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

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
539	39	290904	295452	98.88	10876	1	chrome
0	0	1132	304524		2548	0	Memory Compression
2207	73	406244	322528	266.34	7892	1	chrome
510	136	301660	341320	95.16	4124	1	Teams
517	176	396116	392332	238.05	9728	1	Teams

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

**Code:-**

```
import os

basepath = 'F:\Sem-6 Files\Secure Coding Lab files'

for entry in os.listdir(basepath):
    if os.path.isfile(os.path.join(basepath, entry)):
        print(entry)
```

```
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6> python lab_6-1.py
Secure Coding LAB-2(18BCN7092).docx
Secure Coding LAB-2(18BCN7092).pdf
SECURE CODING LAB-5(18BCN7092).docx
SECURE CODING LAB-5(18BCN7092).pdf
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6>
```

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

**Code:-**

```
import os

basepath = 'F:\Sem-6 Files\Secure Coding Lab files'

for entry in os.listdir(basepath):
    if os.path.isdir(os.path.join(basepath, entry)):
        print(entry)
```

```
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6> python lab_6-2.py
LAB-1
Lab-3 SC
Lab-4 SC
Lab-6
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6>
```

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

**Code:-**

```
import os

for dirpath, dirnames, files in os.walk('.'):
    print(f'Found directory: {dirpath}')
```

```
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6> python lab_6-3.py
Found directory: .
Found directory: .\Powershell Codes
Found directory: .\Python files
Found directory: .\Python files\Sample
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6>
```

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

**Code:-**

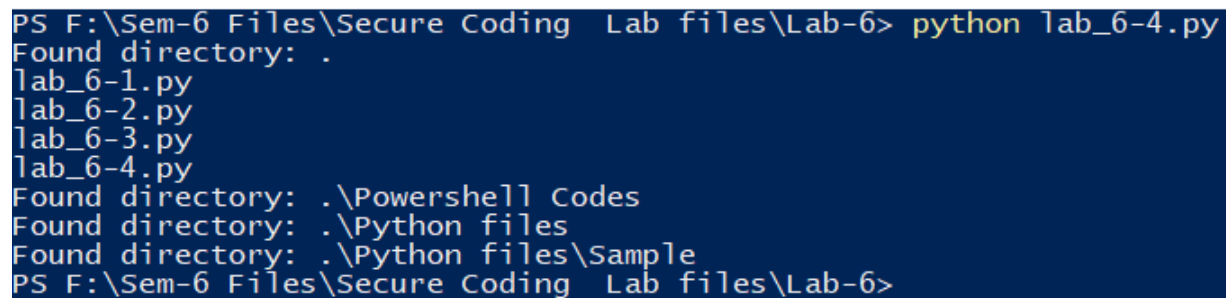
```
import os

for dirpath, dirnames, files in os.walk('.'):

    print(f'Found directory: {dirpath}')

    for file_name in files:

        print(file_name)
```



```
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6> python lab_6-4.py
Found directory: .
lab_6-1.py
lab_6-2.py
lab_6-3.py
lab_6-4.py
Found directory: .\Powershell Codes
Found directory: .\Python files
Found directory: .\Python files\Sample
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6>
```

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.

**Code:-**

```
import os

f= open("pythontext.txt","w+")

for dirpath, dirnames, files in os.walk('.'):

    print(f'Found directory: {dirpath}')

    f.write(dirpath+" ")

    for file_name in files:

        print(file_name)

        f.write(file_name+"\n")

f.close()
```

```

PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6> python lab_6-5.py
Found directory: .
lab_6-1.py
lab_6-2.py
lab_6-3.py
lab_6-4.py
lab_6-5.py
pythontext.txt
Found directory: .\Powershell Codes
Found directory: .\Python files
Found directory: .\Python files\Sample
PS F:\Sem-6 Files\Secure Coding Lab files\Lab-6>

```

pythontext.txt - Notepad

File Edit Format View Help

```

|. lab_6-1.py
lab_6-2.py
lab_6-3.py
lab_6-4.py
lab_6-5.py
pythontext.txt
.\Powershell Codes .\Python files .\Python files\Sample

```

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

### Code:-

```
list=['a','b','c','d']
```

```
for i in range(len(list)):
```

```
    open('file%i.txt' % i, 'w').write(list[i])
```

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Search Lab-6

Name	Date modified	Type	Size
Powershell Codes	3/11/2021 10:45 PM	File folder	
Python files	3/11/2021 10:44 PM	File folder	
file0.txt	3/11/2021 11:06 PM	Text Document	1 KB
file1.txt	3/11/2021 11:06 PM	Text Document	1 KB
file2.txt	3/11/2021 11:06 PM	Text Document	1 KB
file3.txt	3/11/2021 11:06 PM	Text Document	1 KB



file0.txt - Notepad

File Edit Format View Help

a



file1.txt - Notepad

File Edit Format View Help

b



file2.txt - Notepad

—



File Edit Format View Help

c



file3.txt - Notepad

—



File Edit Format View Help

d