

SECURE CODING LAB - 6

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1. Find the first processes using the most memory

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

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
499	28	147916	207688	39.95	14784	1	chrome
0	0	1600	252660		2724	0	Memory Compression
2098	158	229868	299344	65.42	9392	1	SearchApp
1860	95	551660	406916		3956	0	MsMpEng
541	202	449960	414700	3,737.45	8136	1	Teams

```
PS C:\Users\bhara>
```

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

```
hello.py  listdir.py  X
```

```
C: > Users > bhara > Documents > listdir.py
```

```
1 import os
2 basepath = 'C:\Xampp'
3 for entry in os.listdir(basepath):
4     if os.path.isfile(os.path.join(basepath,entry)):
5         print(entry)
```

```
PS C:\Users\bhara\Documents> python listdir.py
apache_start.bat
apache_stop.bat
catalina_service.bat
catalina_start.bat
catalina_stop.bat
ctlscrip.bat
filezilla_setup.bat
filezilla_start.bat
filezilla_stop.bat
killprocess.bat
mercury_start.bat
mercury_stop.bat
mysql_start.bat
mysql_stop.bat
passwords.txt
properties.ini
readme_de.txt
readme_en.txt
service.exe
setup_xampp.bat
test_php.bat
uninstall.dat
uninstall.exe
xampp-control.exe
xampp-control.ini
xampp-control.log
xampp_shell.bat
xampp_start.exe
xampp_stop.exe
PS C:\Users\bhara\Documents> █
```

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

```
hello.py  listdir.py  listdir2.py X
C: > Users > bhara > Documents > listdir2.py
1  import os
2  basepath = 'C:\Xampp'
3  for entry in os.listdir(basepath):
4      if os.path.isdir(os.path.join(basepath,entry)):
5          print(entry)
```

```
Windows PowerShell
PS C:\Users\bhara\Documents> python listdir2.py
anonymous
apache
cgi-bin
contrib
FileZillaFTP
htdocs
img
install
licenses
locale
mailoutput
mailtodisk
MercuryMail
mysql
perl
php
phpMyAdmin
sendmail
src
tmp
tomcat
webalizer
webdav
PS C:\Users\bhara\Documents>
```

4. Write a python script to get all the directory and sub directory names in the current directory.

```
PS C:\Users\bhara\Documents> cd ..\Desktop\CybersecAssignment-18bcn7041\
PS C:\Users\bhara\Desktop\CybersecAssignment-18bcn7041> 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
>>> for root, dirs, files in os.walk("."):
...     for dirname in dirs:
...         print(dirname)
...
ChatApp
HackerServer
node_modules
public
routes
views
.bin
body-parser
express
jade
logfmt
```

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

```

PS F:\securelab> 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()
>>> 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)
...
F:\securelab\ADVANCE CYBER SECURITY ASSIGNMENT.docx
F:\securelab\DAA LAB-3.pdf
F:\securelab\SECURE CODING LAB - 3.pdf
F:\securelab\SECURE CODING LAB1.pdf
>>>

```

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

```

hello.py  listdir.py  listdir2.py  pyscr1.py X
C: > Users > bhara > Documents > pyscr1.py
1  import os
2  f=open("pythontext.txt","w")
3  for dirpath,dirnames,files in os.walk('.'):
4      print(f'Found directory:{dirpath}')
5      f.write(dirpath+"\n")
6      for file_name in files:
7          print(file_name)
8          f.write(file_name+"\n")
9  f.close()

```

```
Windows PowerShell
PS C:\Users\bhara\Desktop\Online Whiteboard> python pyscr1.py
Found directory:
classdiagram.drawio
classdiagram.png
draw1.drawio
er_overall.pdf
er_overall.PNG
objectdiagram.drawio
objectdiagram.png
pyscr1.py
pythontext.txt
SELAB1-18bcn7041.pdf
SELAB2-18bcn7041.pdf
SELAB3-18bcn7041(SRS).pdf
SELAB4-18bcn7041.pdf
SELAB5-18bcn7041.pdf
PS C:\Users\bhara\Desktop\Online Whiteboard> █
```

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

```
PS C:\Users\bhara\Desktop\Online Whiteboard> 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
>>> █
```