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Course code/name: CSE2010/ Secure Coding

Slot: L23 + L24

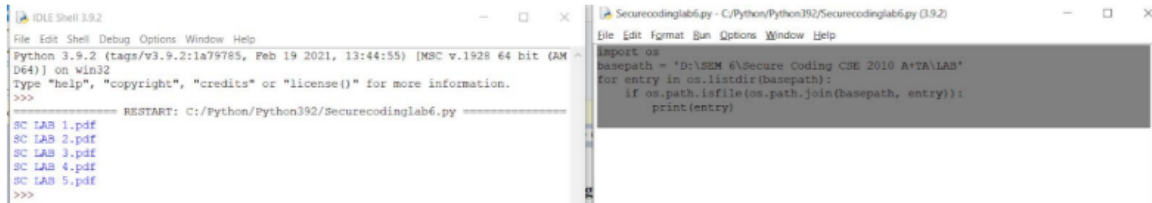
Faculty: Prof. Sibi Chakkaravarthy S

LAB-6

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

Code:

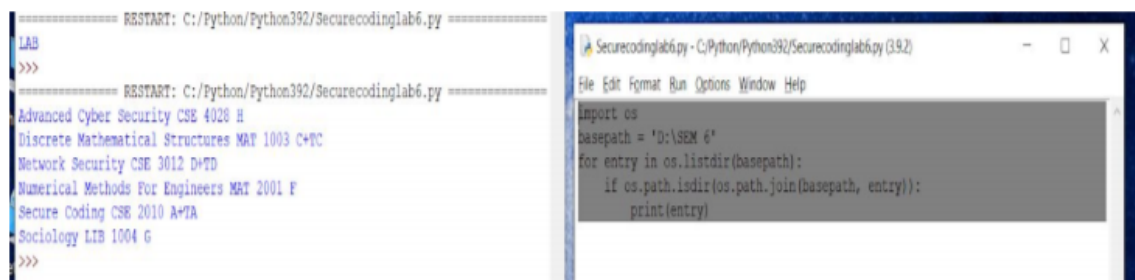
```
import os
basepath = 'D:\SEM 6\Secure Coding CSE 2010 A+TA\LAB'
for entry in os.listdir(basepath):
    if os.path.isfile(os.path.join(basepath, entry)):
        print(entry)
```



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

Code:

```
import os
basepath = 'D:\SEM 6'
for entry in os.listdir(basepath):
    if os.path.isdir(os.path.join(basepath, entry)):
        print(entry)
```

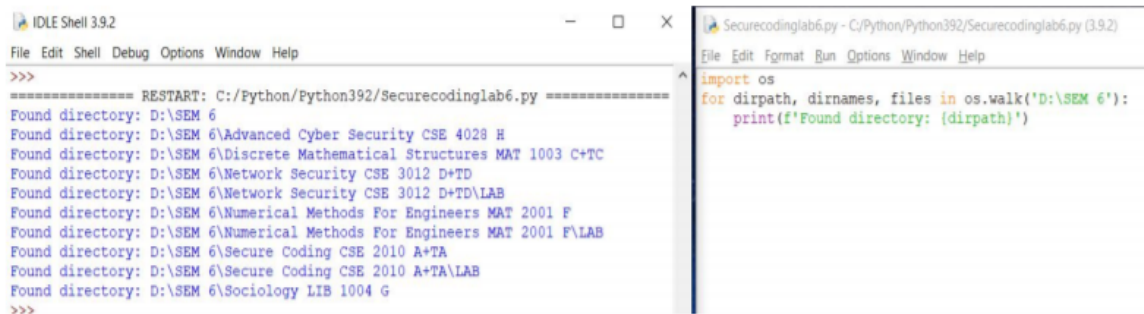


3. Write a python script to get all the directory and subdirectory names in the current directory

Code:

```
import os
```

```
for dirpath, dirnames, files in os.walk('D:\SEM 6'):
    print(f'Found directory: {dirpath}')
```



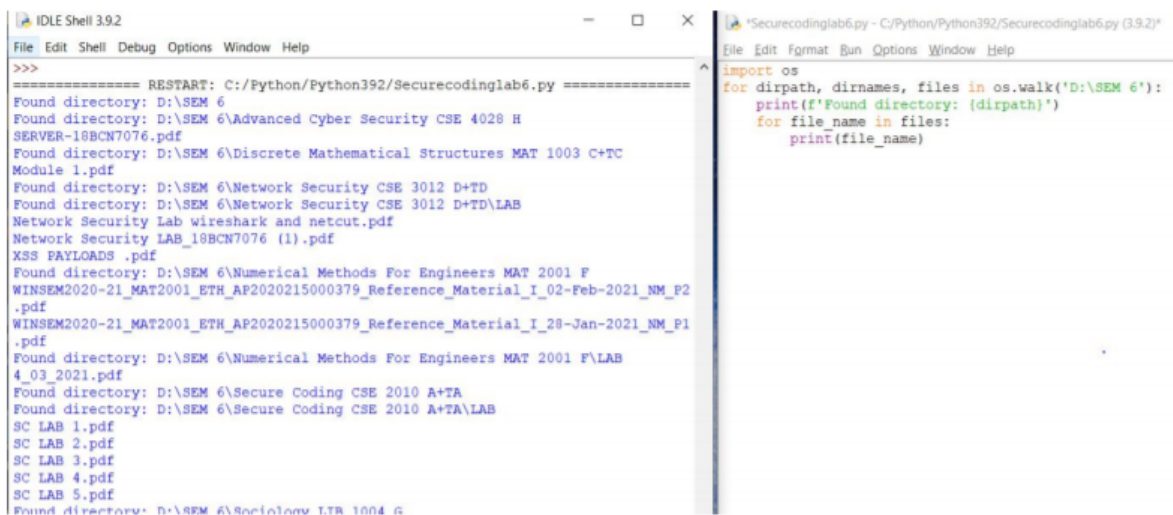
```

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
>>>
===== RESTART: C:/Python/Python392/Securecodinglab6.py =====
Found directory: D:\SEM 6
Found directory: D:\SEM 6\Advanced Cyber Security CSE 4028 H
Found directory: D:\SEM 6\Discrete Mathematical Structures MAT 1003 C+TC
Found directory: D:\SEM 6\Network Security CSE 3012 D+TD
Found directory: D:\SEM 6\Network Security CSE 3012 D+TD\LAB
Found directory: D:\SEM 6\Numerical Methods For Engineers MAT 2001 F
Found directory: D:\SEM 6\Numerical Methods For Engineers MAT 2001 F\LAB
Found directory: D:\SEM 6\Secure Coding CSE 2010 A+TA
Found directory: D:\SEM 6\Secure Coding CSE 2010 A+TA\LAB
Found directory: D:\SEM 6\Sociology LIB 1004 G
>>>
Securecodinglab6.py - C:/Python/Python392/Securecodinglab6.py (3.9.2)
File Edit Format Run Options Window Help
import os
for dirpath, dirnames, files in os.walk('D:\SEM 6'):
    print(f'Found directory: {dirpath}')
```

- 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('D:\SEM 6'):
    print(f'Found directory: {dirpath}')
    for file_name in files:
        print(file_name)
```



```

IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
>>>
===== RESTART: C:/Python/Python392/Securecodinglab6.py =====
Found directory: D:\SEM 6
Found directory: D:\SEM 6\Advanced Cyber Security CSE 4028 H
SERVER-18BCN7076.pdf
Found directory: D:\SEM 6\Discrete Mathematical Structures MAT 1003 C+TC
Module 1.pdf
Found directory: D:\SEM 6\Network Security CSE 3012 D+TD
Found directory: D:\SEM 6\Network Security CSE 3012 D+TD\LAB
Network Security Lab wireshark and netcut.pdf
Network Security LAB_18BCN7076 (1).pdf
XSS PAYLOADS .pdf
Found directory: D:\SEM 6\Numerical Methods For Engineers MAT 2001 F
WINSEM2020-21_MAT2001_ETH_AP2020215000379_Reference_Material_I_02-Feb-2021_NM_F2
.pdf
WINSEM2020-21_MAT2001_ETH_AP2020215000379_Reference_Material_I_28-Jan-2021_NM_P1
.pdf
Found directory: D:\SEM 6\Numerical Methods For Engineers MAT 2001 F\LAB
4_03_2021.pdf
Found directory: D:\SEM 6\Secure Coding CSE 2010 A+TA
Found directory: D:\SEM 6\Secure Coding CSE 2010 A+TA\LAB
SC LAB 1.pdf
SC LAB 2.pdf
SC LAB 3.pdf
SC LAB 4.pdf
SC LAB 5.pdf
Found directory: D:\SEM 6\Sociology LIB 1004 G
>>>
Securecodinglab6.py - C:/Python/Python392/Securecodinglab6.py (3.9.2)
File Edit Format Run Options Window Help
import os
for dirpath, dirnames, files in os.walk('D:\SEM 6'):
    print(f'Found directory: {dirpath}')
    for file_name in files:
        print(file_name)
```

- 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("text.txt","w+")
```

```
for dirpath, dirnames, files in os.walk('D:\SEM 6'):
```

```
    print(f'Dir is : {dirpath}')
```

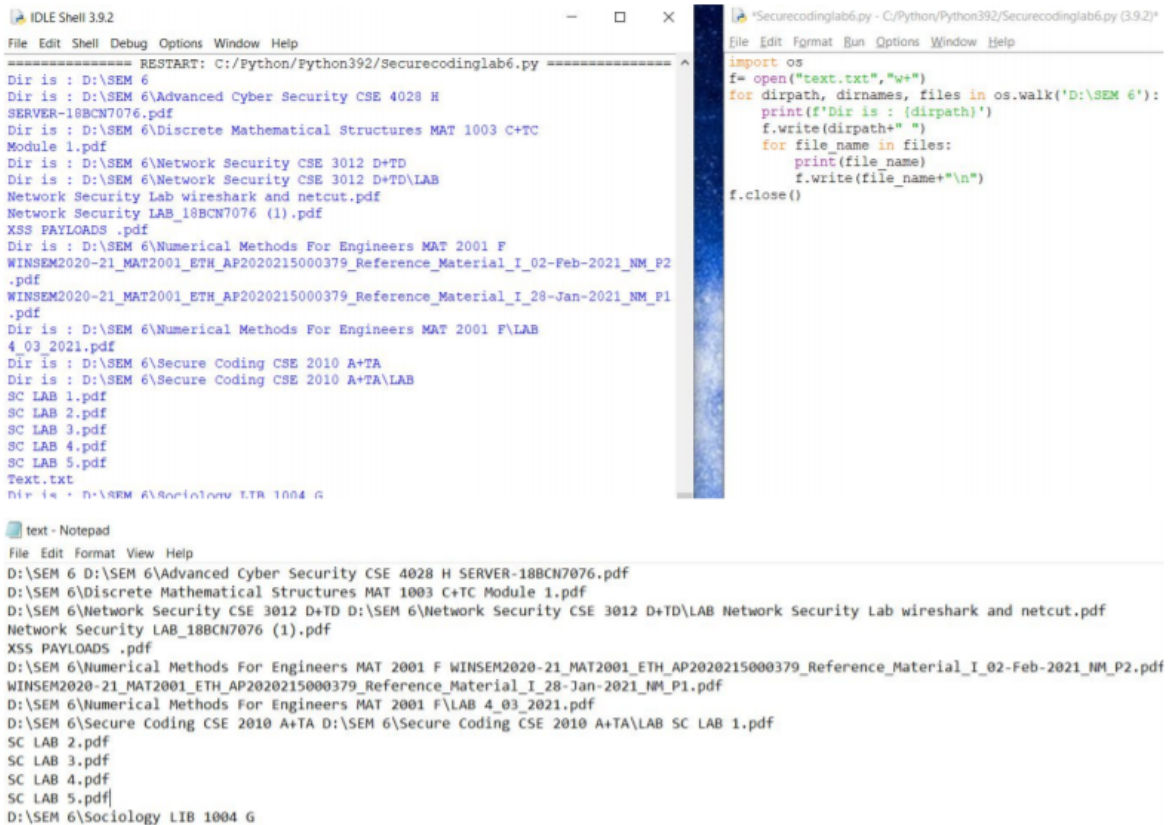
```
    f.write(dirpath+" ")
```

```
    for file_name in files:
```

```
        print(file_name)
```

```
        f.write(file_name+"\n")
```

```
f.close()
```



The screenshot shows two windows. The top window is 'IDLE Shell 3.9.2' with the menu bar 'File Edit Shell Debug Options Window Help'. It displays the output of a Python script that walks through the directory 'D:\SEM 6'. The output lists various subdirectories and files, including PDF documents and a text file. The bottom window is 'text - Notepad' with the menu bar 'File Edit Format View Help'. It displays the same output as the IDLE Shell window, showing the directory structure and file names as written to 'text.txt'.

```
===== RESTART: C:/Python/Python392/Securecodinglab6.py =====
Dir is : D:\SEM 6
Dir is : D:\SEM 6\Advanced Cyber Security CSE 4028 H SERVER-18BCN7076.pdf
Dir is : D:\SEM 6\Discrete Mathematical Structures MAT 1003 C+TC Module 1.pdf
Dir is : D:\SEM 6\Network Security CSE 3012 D+TD
Dir is : D:\SEM 6\Network Security CSE 3012 D+TD\LAB Network Security Lab wireshark and netcut.pdf
Network Security LAB_18BCN7076 (1).pdf
XSS PAYLOADS .pdf
Dir is : D:\SEM 6\Numerical Methods For Engineers MAT 2001 F WINSEM2020-21_MAT2001_ETH_AP2020215000379_Reference_Material_I_02-Feb-2021_NM_P2.pdf
WINSEM2020-21_MAT2001_ETH_AP2020215000379_Reference_Material_I_28-Jan-2021_NM_P1.pdf
Dir is : D:\SEM 6\Numerical Methods For Engineers MAT 2001 F\LAB 4_03_2021.pdf
Dir is : D:\SEM 6\Secure Coding CSE 2010 A+TA
Dir is : D:\SEM 6\Secure Coding CSE 2010 A+TA\LAB SC LAB 1.pdf
SC LAB 2.pdf
SC LAB 3.pdf
SC LAB 4.pdf
SC LAB 5.pdf
Text.txt
Dir is : D:\SEM 6\Sociology LIB 1004 G
```

```
text - Notepad
File Edit Format View Help
D:\SEM 6 D:\SEM 6\Advanced Cyber Security CSE 4028 H SERVER-18BCN7076.pdf
D:\SEM 6\Discrete Mathematical Structures MAT 1003 C+TC Module 1.pdf
D:\SEM 6\Network Security CSE 3012 D+TD D:\SEM 6\Network Security CSE 3012 D+TD\LAB Network Security Lab wireshark and netcut.pdf
Network Security LAB_18BCN7076 (1).pdf
XSS PAYLOADS .pdf
D:\SEM 6\Numerical Methods For Engineers MAT 2001 F WINSEM2020-21_MAT2001_ETH_AP2020215000379_Reference_Material_I_02-Feb-2021_NM_P2.pdf
WINSEM2020-21_MAT2001_ETH_AP2020215000379_Reference_Material_I_28-Jan-2021_NM_P1.pdf
D:\SEM 6\Numerical Methods For Engineers MAT 2001 F\LAB 4_03_2021.pdf
D:\SEM 6\Secure Coding CSE 2010 A+TA D:\SEM 6\Secure Coding CSE 2010 A+TA\LAB SC LAB 1.pdf
SC LAB 2.pdf
SC LAB 3.pdf
SC LAB 4.pdf
SC LAB 5.pdf
D:\SEM 6\Sociology LIB 1004 G
```

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

Windows PowerShell

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

PS C:\Users\user> cd D:\SEM6
PS D:\SEM6> 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 Create files using windows power shell")
...
40
40
40
40
>>>
```