

# SECURE CODING LAB 6

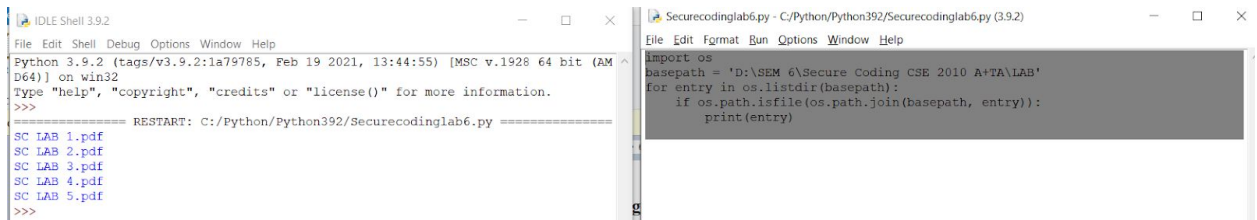
TOPIC : Python Script Commands and Windows PowerShell

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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)
```

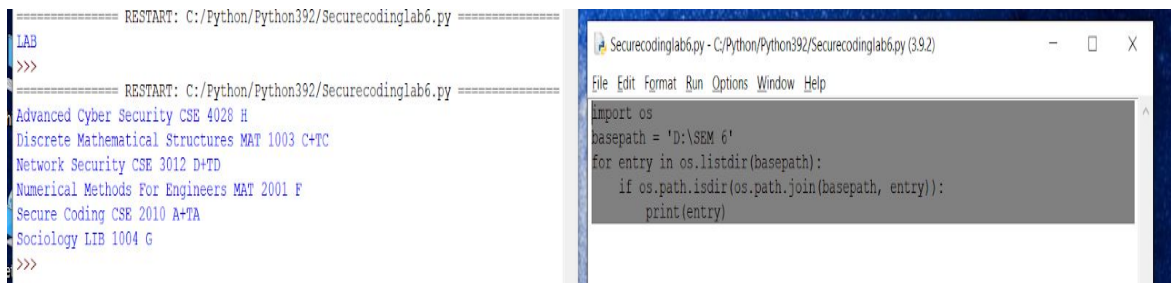


The screenshot shows two windows from the Python IDLE environment. The left window is the 'IDLE Shell 3.9.2', which displays the output of the script: 'SC LAB 1.pdf', 'SC LAB 2.pdf', 'SC LAB 3.pdf', 'SC LAB 4.pdf', and 'SC LAB 5.pdf'. The right window is the 'Securecodinglab6.py - C:/Python/Python392/Securecodinglab6.py (3.9.2)' editor, showing the code used to list files in the directory 'D:\SEM 6\Secure Coding CSE 2010 A+TA\LAB'.

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)
```



The screenshot shows two windows from the Python IDLE environment. The left window is the 'IDLE Shell 3.9.2', which displays the output of the script: 'Advanced Cyber Security CSE 4028 H', 'Discrete Mathematical Structures MAT 1003 C+TC', 'Network Security CSE 3012 D+TD', 'Numerical Methods For Engineers MAT 2001 F', 'Secure Coding CSE 2010 A+TA', and 'Sociology LIB 1004 G'. The right window is the 'Securecodinglab6.py - C:/Python/Python392/Securecodinglab6.py (3.9.2)' editor, showing the code used to list directories in the directory 'D:\SEM 6'.

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}')
```

The screenshot shows two windows from an IDE. The left window, titled 'IDLE Shell 3.9.2', displays the output of a script: a list of directories found under 'D:\SEM 6', including 'Advanced Cyber Security CSE 4028 H', 'Discrete Mathematical Structures MAT 1003 C+TC', 'Network Security CSE 3012 D+TD', 'Numerical Methods For Engineers MAT 2001 F', 'Secure Coding CSE 2010 A+TA', and 'Sociology LIB 1004 G'. The right window, titled 'Securecodinglab6.py - C:/Python/Python392/Securecodinglab6.py (3.9.2)', shows the source code of the script: `import os`, `for dirpath, dirnames, files in os.walk('D:\SEM 6'):`, and `print(f'Found directory: {dirpath}')`.

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

Code:

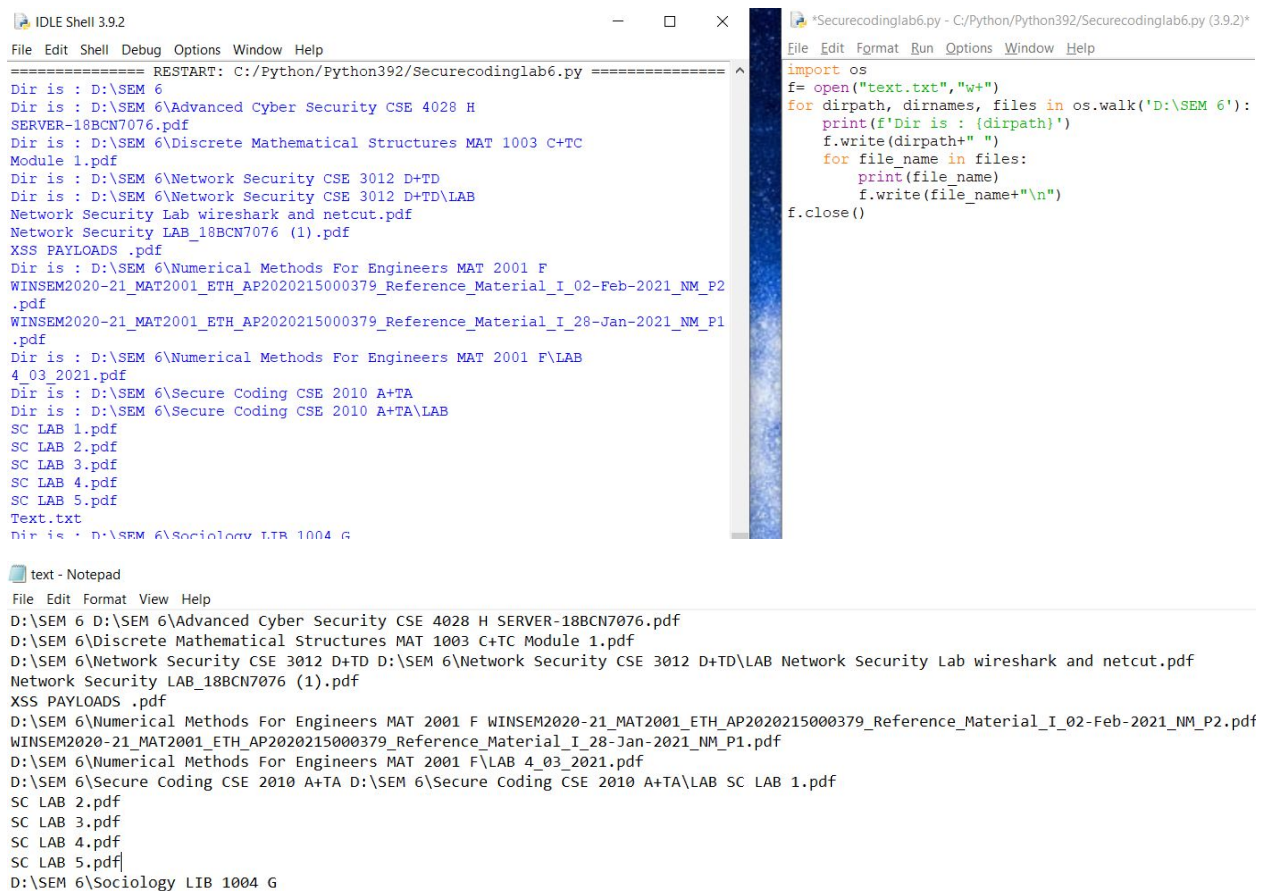
```
import os
for dirpath, dirnames, files in os.walk('D:\SEM 6'):
    print(f'Found directory: {dirpath}')
    for file_name in files:
        print(file_name)
```

The screenshot shows two windows from an IDE. The left window, titled 'IDLE Shell 3.9.2', displays the output of a script: a list of directories found under 'D:\SEM 6' (same as the previous screenshot), followed by a list of files found in each directory, such as 'SERVER-18BCN7076.pdf', 'Module 1.pdf', 'XSS PAYLOADS .pdf', 'WINSEM2020-21\_MAT2001\_ETH\_AP2020215000379\_Reference\_Material\_I\_02-Feb-2021\_NM\_P2.pdf', 'SC LAB 1.pdf', 'SC LAB 2.pdf', 'SC LAB 3.pdf', 'SC LAB 4.pdf', and 'SC LAB 5.pdf'. The right window, titled 'Securecodinglab6.py - C:/Python/Python392/Securecodinglab6.py (3.9.2)', shows the source code of the script: `import os`, `for dirpath, dirnames, files in os.walk('D:\SEM 6'):`, `print(f'Found directory: {dirpath}')`, `for file_name in files:`, and `print(file_name)`.

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.

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()
```



```
===== 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
```

```
File Edit Format Run Options Window Help
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()
```

```
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
>>>
```