

Secure Coding Lab – 6

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18BCN7038

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

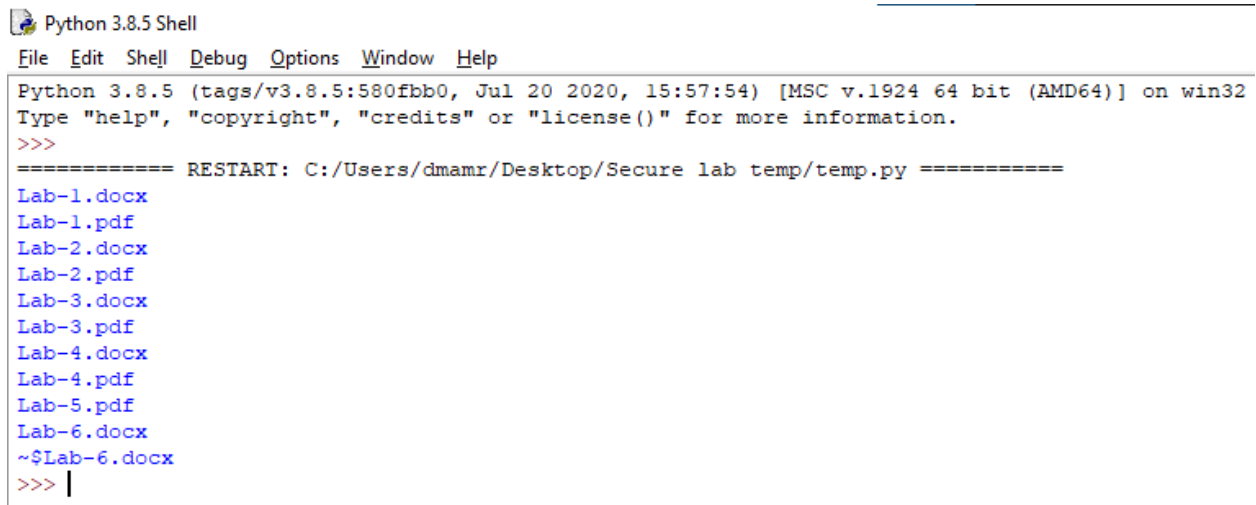
```
import os

basepath = 'F:/College Stuff/Secure Coding/Lab'

for entry in os.listdir(basepath):

    if os.path.isfile(os.path.join(basepath, entry)):

        print(entry)
```



The screenshot shows a Python 3.8.5 Shell window with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). The main text area displays the following content:

```
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/dmamr/Desktop/Secure lab temp/temp.py =====
Lab-1.docx
Lab-1.pdf
Lab-2.docx
Lab-2.pdf
Lab-3.docx
Lab-3.pdf
Lab-4.docx
Lab-4.pdf
Lab-5.pdf
Lab-6.docx
~$Lab-6.docx
>>> |
```

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

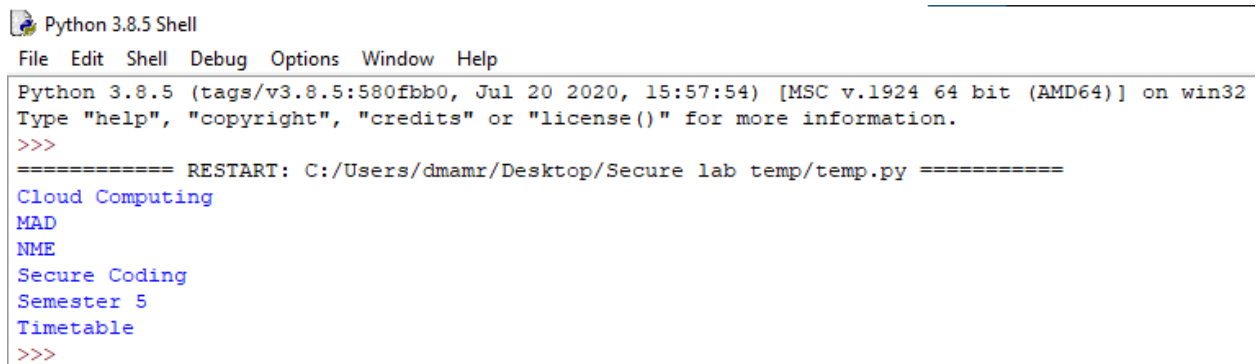
```
import os

basepath = 'F:/College Stuff'

for entry in os.listdir(basepath):

    if os.path.isdir(os.path.join(basepath, entry)):

        print(entry)
```



The screenshot shows a Python 3.8.5 Shell window with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). The command prompt displays the Python version and build information. The user has entered the command `>>>`, and the script has executed, displaying the output of the `print(entry)` statements. The output lists the directory names: `Cloud Computing`, `MAD`, `NME`, `Secure Coding`, `Semester 5`, and `Timetable`. The prompt `>>>` is shown again at the bottom.

```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/dmamr/Desktop/Secure lab temp/temp.py =====
Cloud Computing
MAD
NME
Secure Coding
Semester 5
Timetable
>>>
```

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

```
import os

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

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



```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:/College Stuff/temp.py =====
Found directory: .
Found directory: .\Cloud Computing
Found directory: .\MAD
Found directory: .\MAD\lab
Found directory: .\NME
Found directory: .\NME\Lab
Found directory: .\NME\OLD Lab Stuff
Found directory: .\NME\OLD Theory Stuff
Found directory: .\Secure Coding
Found directory: .\Secure Coding\Lab
Found directory: .\Semester 5
Found directory: .\Semester 5\Critical THinking
Found directory: .\Semester 5\Critical THinking\Class Materials
Found directory: .\Semester 5\Critical THinking\Course materials
Found directory: .\Semester 5\Cyber
Found directory: .\Semester 5\Cyber\Labs stuff
Found directory: .\Semester 5\Cyber\Reference Materials
Found directory: .\Semester 5\Design and Analysis of Algorithms
Found directory: .\Semester 5\Design and Analysis of Algorithms\Classroom PPTs
Found directory: .\Semester 5\Design and Analysis of Algorithms\Design_and_Analysis_of_Algorithms
Found directory: .\Semester 5\Design and Analysis of Algorithms\Labs
Found directory: .\Semester 5\Design and Analysis of Algorithms\Labs docs
Found directory: .\Semester 5\Design and Analysis of Algorithms\Reference books
Found directory: .\Semester 5\Design and Analysis of Algorithms\Reference materials
Found directory: .\Semester 5\Design and Analysis of Algorithms\VTOP Reference Materials
Found directory: .\Semester 5\DWDM
Found directory: .\Semester 5\DWDM\General
Found directory: .\Semester 5\DWDM\General\Class Materials
Found directory: .\Semester 5\DWDM\Lab docs
Found directory: .\Semester 5\DWDM\Lab materials
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\Lab 2. Pandas
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\Lab 2. Pandas\ipynb_checkpoints
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\Lab 3. Visualization
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\__MACOSX
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\__MACOSX\Lab 2. Pandas
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\__MACOSX\Lab 3. Visualization
Found directory: .\Semester 5\DWDM\Lab materials\Labs(1-3)\__MACOSX\Lab 3. Visualization
```

```
import os

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

```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:\College Stuff\temp.py =====
Found directory: .
temp.py
Found directory: .\Cloud Computing
18BCN7038 Project Abstract.docx
18BCN7038 Project Abstract.pdf
Found directory: .\MAD
Found directory: .\MAD\lab
18BCN7038 Lab-1.pdf
18BCN7038 Lab-2.pdf
18BCN7038 Lab-4.pdf
18BCN7038 Lab-5.pdf
18BCN7038 Lab-6.pdf
Lab-1.docx
Lab-2.docx
Lab-3.docx
Lab-3.pdf
Lab-4.docx
Lab-5.docx
Lab-6.docx
Found directory: .\NME
S. R. K. Iyengar, R. K. Jain - Numerical Methods (2009, New Age International (P) Limited).pdf
Steven C. Chapra, Raymond P. Canale - Numerical Methods for Engineers (2014, McGraw-Hill Education) - libgen.lc.pdf
Found directory: .\NME\Lab
Thomas Algo Lab 18BCN7038.docx
Thomas Algo Lab 18BCN7038.pdf
Found directory: .\NME\OLD Lab Stuff
18BCN7052_Aniket_MATLAB_LAB_REPORT.odt
experiments.PNG
finite.m
GSM.m
GS_jacobi.m
guass.docx
guass.pdf
LAB1bisection.m
LAB1regulafalsi.m
LAB3newton.m
LAB3secant.m
```

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:

```
import os

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

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

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

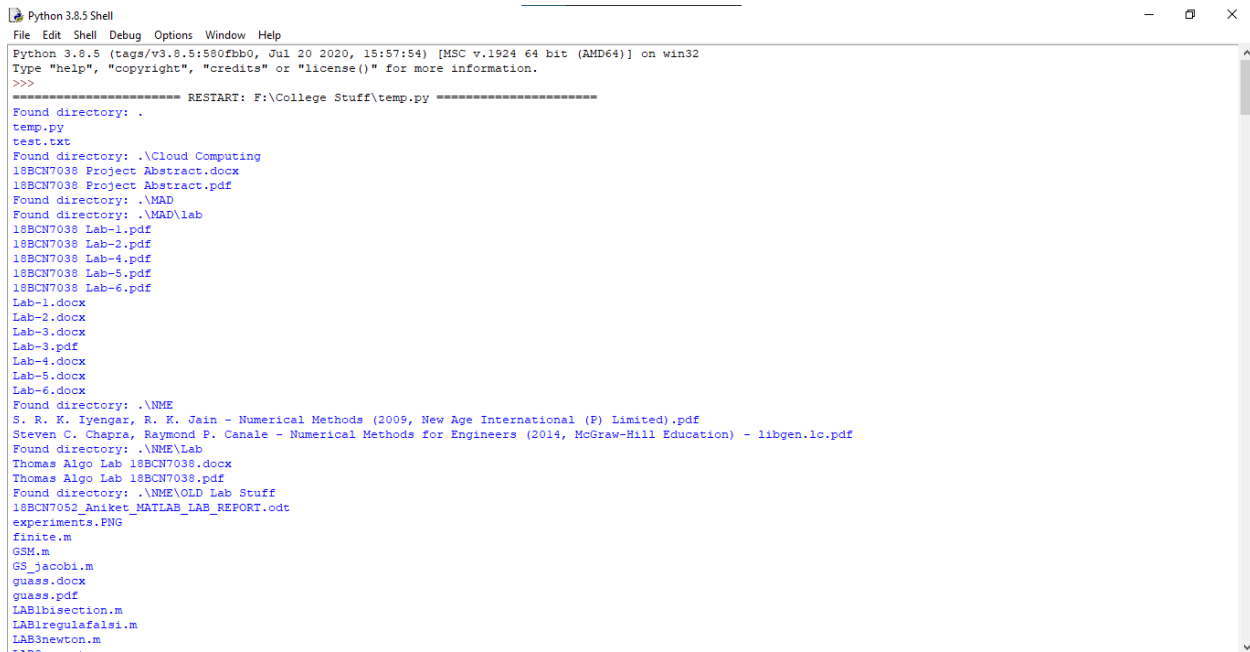
    f.write(dirpath+" ")

    for file_name in files:

        print(file_name)

        f.write(file_name+"\n")

f.close()
```



```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:\College Stuff\temp.py =====
Found directory: .
temp.py
test.txt
Found directory: .\Cloud Computing
18BCN7038 Project Abstract.docx
18BCN7038 Project Abstract.pdf
Found directory: .\MAD
Found directory: .\MAD\lab
18BCN7038 Lab-1.pdf
18BCN7038 Lab-2.pdf
18BCN7038 Lab-4.pdf
18BCN7038 Lab-5.pdf
18BCN7038 Lab-6.pdf
Lab-1.docx
Lab-2.docx
Lab-3.docx
Lab-3.pdf
Lab-4.docx
Lab-5.docx
Lab-6.docx
Found directory: .\NME
S. R. K. Iyengar, R. K. Jain - Numerical Methods (2009, New Age International (P) Limited).pdf
Steven C. Chapra, Raymond P. Canale - Numerical Methods for Engineers (2014, McGraw-Hill Education) - libgen.lc.pdf
Found directory: .\NME\Lab
Thomas Algo Lab 18BCN7038.docx
Thomas Algo Lab 18BCN7038.pdf
Found directory: .\NME\OLD Lab Stuff
18BCN7052 Aniket_MATLAB_LAB_REPORT.odt
experiments.PNG
finite.m
GSM.m
GS_jacobi.m
guass.docx
guass.pdf
LAB1bisection.m
LAB1regulaefalsi.m
LAB3newton.m
*****
```

```
test - Notepad
File Edit Format View Help
. temp.py
test.txt
.\Cloud Computing 188CN7038 Project Abstract.docx
188CN7038 Project Abstract.pdf
.VHAD .\HAD\Lab 188CN7038 Lab-1.pdf
188CN7038 Lab-2.pdf
188CN7038 Lab-4.pdf
188CN7038 Lab-5.pdf
188CN7038 Lab-6.pdf
Lab-1.docx
Lab-2.docx
Lab-3.docx
Lab-3.pdf
Lab-4.docx
Lab-5.docx
Lab-6.docx
.\NME S. R. K. Iyengar, R. K. Jain - Numerical Methods (2009, New Age International (P) Limited).pdf
Steven C. Chapra, Raymond P. Canale - Numerical Methods for Engineers (2014, McGraw-Hill Education) - libgen.ic.pdf
.\NME\Lab Thomas Algo Lab 188CN7038.docx
Thomas Algo Lab 188CN7038.pdf
.\NME\OLD Lab Stuff 188CN7052_Aniket_MATLAB_LAB_REPORT.odt
experiments.PNG
finite.m
GSM.m
GS_Jacobi.m
guass.docx
guass.pdf
LAB1bisection.m
LAB1regulafalsi.m
LAB3newton.m
LAB3secant.m
lab4newtonraphsonmultivariate.m
Lab_Manual.docx
lagrange.m
MAT2001 L3.docx
MAT2001 L3.pdf
MAT2001 LAB REPORT 188CD7062.docx
MAT2001 LAB REPORT 188CD7062.pdf
newton.m
newtonRaphsonMultivariate.docx
newtonRaphsonMultivariate.pdf
numericalintergrations.txt
omega.m
RKout.m
roboter.zip
rungkutta.m
<
Ln 1, Col 1 100% Windows (CRLF) UTF-8
```

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

```
import os
```

```
path = os.getcwd()
```

```
for i in range(1,5):
```













```
    with open(path+"\{}.txt".format(i), "w") as f:
```

```
        f.write("\n this my files ")
```

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

PS C:\Users\dmmamr> F:
PS F:\> cd '.\College Stuff\'
PS F:\College Stuff> python temp.py
PS F:\College Stuff>
```

Name	Date modified	Type	Size
 Cloud Computing	3/7/2021 10:46 AM	File folder	
 MAD	2/14/2021 4:00 PM	File folder	
 NME	2/28/2021 3:52 PM	File folder	
 Secure Coding	2/20/2021 5:30 PM	File folder	
 Semester 5	1/28/2021 12:59 PM	File folder	
 Timetable	3/2/2021 11:30 AM	File folder	
 1	3/9/2021 10:31 AM	Text Document	1 KB
 2	3/9/2021 10:31 AM	Text Document	1 KB
 3	3/9/2021 10:31 AM	Text Document	1 KB
 4	3/9/2021 10:31 AM	Text Document	1 KB
 temp	3/9/2021 10:30 AM	Python Source File	1 KB
 test	3/9/2021 9:55 AM	Text Document	19 KB