


Secure Coding Lab6

18BCE7338
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Slot: L39+L40

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

 SecureLab6_1.py - Notepad

File Edit Format View Help


```
import os
```

```
for root, dirs, files in os.walk("."):
    for filename in files:
        print(filename)|
```

```
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_1.py
ChatClient$1.class
ChatClient.class
ChatClient.java
ChatServer$Handler.class
ChatServer.class
ChatServer.java
DataReceiver.class
DataReceiver.java
DataSender.class
DataSender.java
DateClient.class
DateClient.java
DateServer.class
DateServer.java
ip_host.class
ip_host.java
MyServer.class
Responder.class
SecureLab6_1.py
TCPMultiClient1.class
TCPMultiClient1.java
TCPMultiClient2.class
TCPMultiClient2.java
TCPMultiClient3.class
TCPMultiClient3.java
TCPMultiServer.class
TCPMultiServer.java
SS4.docx
```

```
PS C:\Users\NarraVenkata Sowmith> cd 18BCE7338
PS C:\Users\NarraVenkata Sowmith\18BCE7338> python3 SecureLab6_1.py
ChatClient$1.class
ChatClient.class
ChatClient.java
ChatServer$Handler.class
ChatServer.class
ChatServer.java
DataReceiver.class
DataReceiver.java
DataSender.class
DataSender.java
DateClient.class
DateClient.java
DateServer.class
DateServer.java
ip_host.class
ip_host.java
MyServer.class
Responder.class
SecureLab6_1.py
TCPMultiClient1.class
TCPMultiClient1.java
TCPMultiClient2.class
TCPMultiClient2.java
TCPMultiClient3.class
TCPMultiClient3.java
TCPMultiServer.class
TCPMultiServer.java
SS4.docx
SS5.txt
SS6.xlsx
SS7.pdf
SS8.docx
SS9.xlsx
SecureLab3-1.docx
SecureLab3-10.docx
SecureLab3-11.docx
SecureLab3-12.docx
```

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

 SecureLab6_2.py - Notepad

File Edit Format View Help

```
import os

def files(path):
    for file in os.listdir(path):
        if os.path.isdir(file):
            yield file


for file in files("."):
    print (file)
```

```
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_2.py
18BCE7338
Application
cat1syllabus
DAA
Development
Mobile
SecureLab1
SecureLab2
SecureLab3
SecureLab6

C:\Users\NarraVenkata Sowmith\18BCE7338>
```

```
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
PS C:\Users\NarraVenkata Sowmith\18BCE7338> python3 SecureLab6_2.py
18BCE7338
Application
cat1syllabus
DAA
Development
Mobile
SecureLab1
SecureLab2
SecureLab3
SecureLab6
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
```

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

 SecureLab6_3.py - Notepad

File Edit Format View Help

```
import os
```


```
for root, dirs, files in os.walk("."):
    for filename in dirs:
        print(os.path.join(root,filename))|
```

```
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_3.py
.\18BCE7338
.\Application
.\cat1syllabus
.\DAA
.\Development
.\Mobile
.\SecureLab1
.\SecureLab2
.\SecureLab3
.\SecureLab6
.\SecureLab1\subdir1
.\SecureLab1\subdir1\subdir2
.\SecureLab1\subdir1\subdir2\subdir3
.\SecureLab1\subdir1\subdir2\subdir3\subdir4
.\SecureLab6\SecureLab2

C:\Users\NarraVenkata Sowmith\18BCE7338>
```

```
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
PS C:\Users\NarraVenkata Sowmith\18BCE7338> python3 SecureLab6_3.py
.\18BCE7338
.\Application
.\cat1syllabus
.\DAA
.\Development
.\Mobile
.\SecureLab1
.\SecureLab2
.\SecureLab3
.\SecureLab6
.\SecureLab1\subdir1
.\SecureLab1\subdir1\subdir2
.\SecureLab1\subdir1\subdir2\subdir3
.\SecureLab1\subdir1\subdir2\subdir3\subdir4
.\SecureLab6\SecureLab2
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
```


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

 SecureLab6_4.py - Notepad
File Edit Format View Help

```
import os
for root,dirs,files in os.walk("."):
    print(dirs,files)
```


```
C:\Users\NarraVenkata Sowmith\18BCE7338>
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_4.py
['18BCE7338', 'Application', 'cat1syllabus', 'DAA', 'Development', 'Mobile', 'SecureLab1', 'SecureLab2', 'SecureLab3', 'SecureLab6'] ['ChatClient$1.class', 'ChatClient.class', 'ChatClient.java', 'ChatServer$Handler.class', 'ChatServer.class', 'ChatServer.java', 'DataReceiver.class', 'DataReceiver.java', 'DataSender.class', 'DataSender.java', 'DateClient.class', 'DateClient.java', 'DateServer.class', 'DateServer.java', 'ip_host.class', 'ip_host.java', 'MyServer.class', 'Responder.class', 'SecureLab6_1.py', 'SecureLab6_2.py', 'SecureLab6_3.py', 'SecureLab6_4.py', 'TCPMultiClient1.class', 'TCPMultiClient1.java', 'TCPMultiClient2.class', 'TCPMultiClient2.java', 'TCPMultiClient3.class', 'TCPMultiClient3.java', 'TCPMultiServer.class', 'TCPMultiServer.java']
[] []
[] []
[] ['WIN(2018-19)_CSE2001_ETH_G11_AP2018195000327_Reference_Material_I_Graphs_class.pptx']
[] ['LAB1.txt', 'LAB2.txt']
[] []
[] []
['subdir1'] []
['subdir2'] []
['subdir3'] ['SS4.docx', 'SS5.txt', 'SS6.xlsx']
['subdir4'] ['SS7.pdf', 'SS8.docx', 'SS9.xlsx']
[] []
[] ['lab2.1.txt', 'Lab2.2.docx']
[] ['SecureLab3-1.docx', 'SecureLab3-10.docx', 'SecureLab3-11.docx', 'SecureLab3-12.docx', 'SecureLab3-13.docx', 'SecureLab3-14.docx', 'SecureLab3-15.docx', 'SecureLab3-16.docx', 'SecureLab3-17.docx', 'SecureLab3-18.docx', 'SecureLab3-19.docx', 'SecureLab3-2.docx', 'SecureLab3-20.docx', 'SecureLab3-21.docx', 'SecureLab3-22.docx', 'SecureLab3-23.docx', 'SecureLab3-24.docx', 'SecureLab3-25.docx', 'SecureLab3-26.docx', 'SecureLab3-27.docx', 'SecureLab3-28.docx', 'SecureLab3-29.docx', 'SecureLab3-3.docx', 'SecureLab3-30.docx', 'SecureLab3-31.docx', 'SecureLab3-32.docx', 'SecureLab3-33.docx', 'SecureLab3-34.docx', 'SecureLab3-35.docx', 'SecureLab3-36.docx', 'SecureLab3-37.docx', 'SecureLab3-38.docx', 'SecureLab3-39.docx', 'SecureLab3-4.docx', 'SecureLab3-40.docx', 'SecureLab3-41.docx', 'SecureLab3-42.docx', 'SecureLab3-43.docx', 'SecureLab3-44.docx', 'SecureLab3-45.docx', 'SecureLab3-46.docx', 'SecureLab3-47.docx', 'SecureLab3-48.docx', 'SecureLab3-49.docx', 'SecureLab3-5.docx', 'SecureLab3-50.docx', 'SecureLab3-6.docx', 'SecureLab3-7.docx', 'SecureLab3-8.docx', 'SecureLab3-9.docx']
['SecureLab2'] ['SecureLab6_1.py', 'SecureLab6_2.py', 'SecureLab6_3.py']
[] ['lab2.1.txt', 'Lab2.2.docx']
C:\Users\NarraVenkata Sowmith\18BCE7338>
```

```

PS C:\Users\NarraVenkata Sowmith\18BCE7338>
PS C:\Users\NarraVenkata Sowmith\18BCE7338> python3 SecureLab6_4.py
['18BCE7338', 'Application', 'cat1syllabus', 'DAA', 'Development', 'Mobile', 'SecureLab1', 'SecureLab2', 'SecureLab3', 'SecureLab6'] ['ChatClient$1.class', 'ChatClient.class', 'ChatClient.java', 'ChatServer$Handler.class', 'ChatServer.class', 'ChatServer.java', 'DataReceiver.class', 'DataReceiver.java', 'DataSender.class', 'DataSender.java', 'DateClient.class', 'DateClient.java', 'DateServer.class', 'DateServer.java', 'ip_host.class', 'ip_host.java', 'MyServer.class', 'Responder.class', 'SecureLab6_1.py', 'SecureLab6_2.py', 'SecureLab6_3.py', 'SecureLab6_4.py', 'TCPMultiClient1.class', 'TCPMultiClient1.java', 'TCPMultiClient2.class', 'TCPMultiClient2.java', 'TCPMultiClient3.class', 'TCPMultiClient3.java', 'TCPMultiServer.class', 'TCPMultiServer.java']
[] []
[] []
[] ['WIN(2018-19)_CSE2001_ETH_G11_AP2018195000327_Reference Material I_Graphs_class.pptx']
[] ['LAB1.txt', 'LAB2.txt']
[] []
[] []
['subdir1'] []
['subdir2'] []
['subdir3'] ['SS4.docx', 'SS5.txt', 'SS6.xlsx']
['subdir4'] ['SS7.pdf', 'SS8.docx', 'SS9.xlsx']
[] []
[] ['lab2.1.txt', 'lab2.2.docx']
[] ['SecureLab3-1.docx', 'SecureLab3-10.docx', 'SecureLab3-11.docx', 'SecureLab3-12.docx', 'SecureLab3-13.docx', 'SecureLab3-14.docx', 'SecureLab3-15.docx', 'SecureLab3-16.docx', 'SecureLab3-17.docx', 'SecureLab3-18.docx', 'SecureLab3-19.docx', 'SecureLab3-2.docx', 'SecureLab3-20.docx', 'SecureLab3-21.docx', 'SecureLab3-22.docx', 'SecureLab3-23.docx', 'SecureLab3-24.docx', 'SecureLab3-25.docx', 'SecureLab3-26.docx', 'SecureLab3-27.docx', 'SecureLab3-28.docx', 'SecureLab3-29.docx', 'SecureLab3-3.docx', 'SecureLab3-30.docx', 'SecureLab3-31.docx', 'SecureLab3-32.docx', 'SecureLab3-33.docx', 'SecureLab3-34.docx', 'SecureLab3-35.docx', 'SecureLab3-36.docx', 'SecureLab3-37.docx', 'SecureLab3-38.docx', 'SecureLab3-39.docx', 'SecureLab3-4.docx', 'SecureLab3-40.docx', 'SecureLab3-41.docx', 'SecureLab3-42.docx', 'SecureLab3-43.docx', 'SecureLab3-44.docx', 'SecureLab3-45.docx', 'SecureLab3-46.docx', 'SecureLab3-47.docx', 'SecureLab3-48.docx', 'SecureLab3-49.docx', 'SecureLab3-5.docx', 'SecureLab3-50.docx', 'SecureLab3-6.docx', 'SecureLab3-7.docx', 'SecureLab3-8.docx', 'SecureLab3-9.docx']
['SecureLab2'] ['SecureLab6_1.py', 'SecureLab6_2.py', 'SecureLab6_3.py']
[] ['lab2.1.txt', 'lab2.2.docx']
PS C:\Users\NarraVenkata Sowmith\18BCE7338>

```

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 text file.

 SecureLab6_5.py - Notepad

File Edit Format View Help

```

import os
file=open("securelab6-5.txt","a")
for root,dirs,files in os.walk("."):
    for dirs in dirs:
        file.write('\n'+dirs)
    file.write('\n')
    for files in files:
        file.write('\n'+files)

```


Creating securelab6-5.txt file via windows command prompt

```
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_5.py  
C:\Users\NarraVenkata Sowmith\18BCE7338>
```

Creating securelab6-5.txt file via windows power shell

```
PS C:\Users\NarraVenkata Sowmith\18BCE7338> python3 SecureLab6_5.py  
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
```

Securelab6-5.text file created with above python code which consists of all file,folder names present in that directory.



securelab6-5.txt - Notepad

File Edit Format View Help

18BCE7338

Application

cat1syllabus

DAA

Development

Mobile

SecureLab1

SecureLab2

SecureLab3

SecureLab6

ChatClient\$1.class

ChatClient.class

ChatClient.java

ChatServer\$Handler.class

ChatServer.class

ChatServer.java

DataReceiver.class

DataReceiver.java

DataSender.class

DataSender.java

DateClient.class

DateClient.java

DateServer.class

DateServer.java

ip_host.class

ip_host.java

MyServer.class

Responder.class

securelab6-5.txt

SecureLab6_1.py

SecureLab6_2.py

SecureLab6_3.py

SecureLab6_4.py

SecureLab6_5.py

TCPMultiClient1.class

TCPMultiClient1.java

TCPMultiClient2.class

TCPMultiClient2.java

TCPMultiClient3.class

TCPMultiClient3.java

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

SecureLab6_6.py - Notepad

```
File Edit Format View Help
import subprocess
create=subprocess.Popen(["powershell","New-Item MADlab.txt,DAAlab.pdf,Cyberlab.docx,CNlab.txt"]
output=create.communicate()[0]
print(output)
```

```
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_5.py
C:\Users\NarraVenkata Sowmith\18BCE7338>python3 SecureLab6_6.py
b'\r\n\r\n Directory: C:\\Users\\NarraVenkata Sowmith\\18BCE7338\\r\\n\\r\\n\\r\\nMode
Length Name
-----
0 MADlab.txt
3 0 DAAlab.pdf
7:13 0 Cyberlab.docx
17:13 0 CNlab.txt
\r\n-a---- 10-03-2021 17:13
\r\n-a---- 10-03-2021 17:1
\r\n-a---- 10-03-2021 1
\r\n-a---- 10-03-2021
\r\n\r\n\r\n\r\n'
```

```
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
PS C:\Users\NarraVenkata Sowmith\18BCE7338> python3 SecureLab6_6.py
b'New-Item : The file 'C:\\Users\\NarraVenkata Sowmith\\18BCE7338\\MADlab.txt' already exists.\nAt line:1 char:1\n+ New-Item MADlab.txt,DAAlab.pdf,Cyberlab.docx,CNlab.txt\n+
, CNlab.txt\n+
+ CategoryInfo          : WriteError: (C:\\Users\\NarraV...7338\\MADlab.txt:String) [N
ew-Item], IOException\n + FullyQualifiedErrorId : NewItemIOError,Microsoft.PowerShell.Commands.NewItemCommand\n\nNew-Item : The file 'C:\\Users\\NarraVenkat
a Sowmith\\18BCE7338\\DAAlab.pdf' already exists.\nAt line:1 char:1\n+ New-Item MADlab.txt,DAAlab.pdf,Cyberlab.docx,CNlab.txt\n+
+ CategoryInfo          : WriteError: (C:\\Users\\NarraV...7338\\DAAlab.pdf:String) [New-Item], IOException\n + FullyQualifiedEr
rorId : NewItemIOError,Microsoft.PowerShell.Commands.NewItemCommand\n\nNew-Item : The file 'C:\\Users\\NarraVenkata Sowmith\\18BCE7338\\Cyberlab.docx' already
exists.\nAt line:1 char:1\n+ New-Item MADlab.txt,DAAlab.pdf,Cyberlab.docx,CNlab.txt\n+
+ CategoryInfo          : WriteError: (C:\\Users\\NarraV...8\\Cyberlab.docx:String) [New-Item], IOException\n + FullyQualifiedErrorId : NewItemIOError,Microsoft.PowerShel
l.Commands.NewItemCommand\n\nNew-Item : The file 'C:\\Users\\NarraVenkata Sowmith\\18BCE7338\\CNlab.txt' already exists.\nAt line:1 char:1\n+ New-Item MADlab.t
xt,DAAlab.pdf,Cyberlab.docx,CNlab.txt\n+
+ CategoryInfo          : WriteError: (C:\\Users\\NarraV...E7338\\CNlab.txt:String) [New-Item], IOException\n + FullyQualifiedErrorId : NewItemIOError,Microsoft.PowerShell.Commands.NewItemCommand\n\n"
PS C:\Users\NarraVenkata Sowmith\18BCE7338>
```

 CNlab.txt	10-03-2021 17:13	Text Document	0 KB
 Cyberlab.docx	10-03-2021 17:13	Microsoft Word D...	0 KB
 DAAlab.pdf	10-03-2021 17:13	Chrome HTML Do...	0 KB