

Secure Coding | Lab 6

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Q1. Write a python script to get all the file names in the current directory

E:\DOCs\Winter_Semester_2020-2021\SecureCoding\Lab\lab6\q1.py (WebAutomation) - Sublim

File Edit Selection Find View Goto Tools Project Preferences Help

```
q1.py x q2.py x q3.py x
1 import os
2
3 location = '../lab6/'
4
5 for item in os.listdir(location):
6     if os.path.isfile(os.path.join(location, item)):
7         print(item)
```

Q2. Write a python script to get all the directory names in the current directory

File Edit Selection Find View Goto Tools Project Preferences Help

```
q1.py x q2.py x q3.py x
1 import os
2
3 location = '../lab6/'
4
5 for item in os.listdir(location):
6     if os.path.isdir(os.path.join(location, item)):
7         print(item)
```

Q3. Write a python script to get all the directory and subdirectory names in the current directory

📁 E:\DOCs\Winter_Semester_2020-2021\SecureCoding\Lab\lab6\q3.py (WebAutomation) - Sublime

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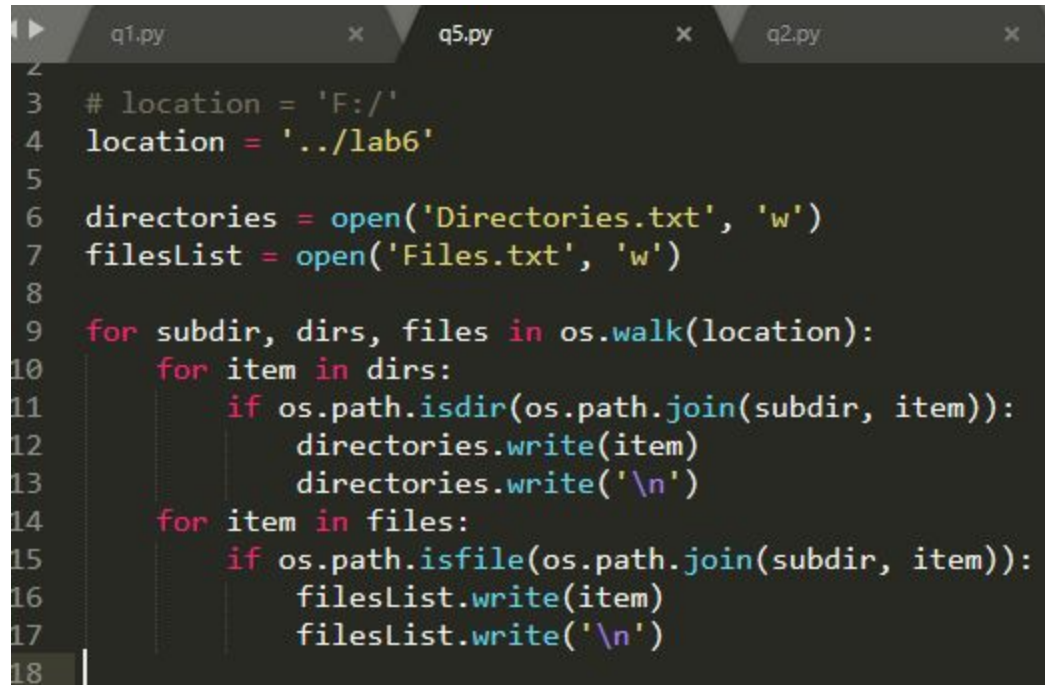
```
q1.py x q2.py x q3.py x
1 import os
2
3 location = '../lab6/'
4 directories = []
5
6 for subdir, dirs, files in os.walk(location):
7     if (len(dirs) != 0):
8         for item in dirs:
9             directories.append(item)
10
11 for dirSubdir in directories:
12     print(dirSubdir)
```

Q4. Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory

File Edit Selection Find View Goto Tools Project Preferences Help

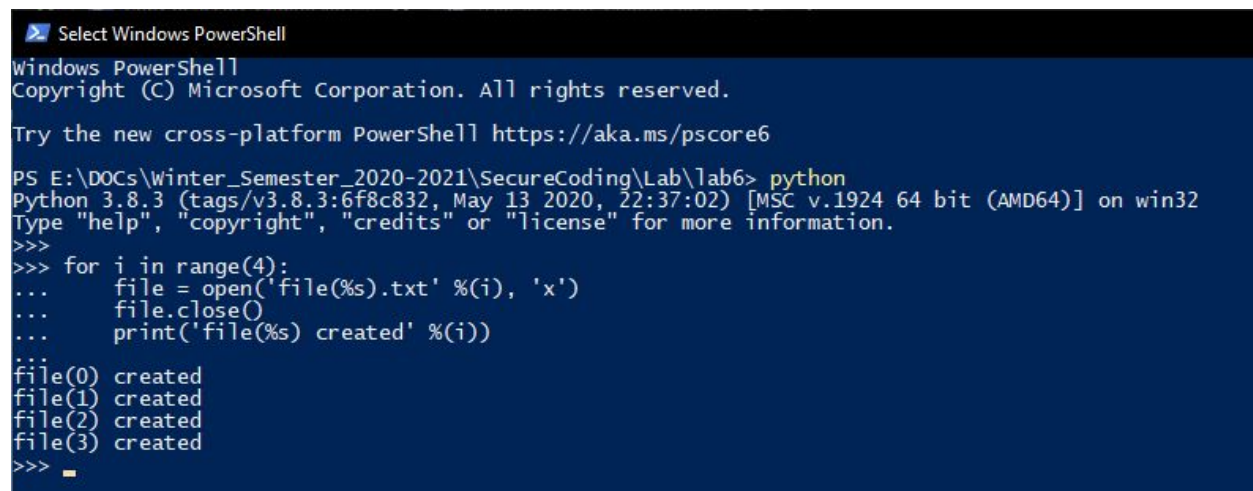
```
q1.py x q2.py x q3.py x q4.py
1 import os
2
3 location = '../lab6/'
4 directories = []
5 filesList = []
6
7 for subdir, dirs, files in os.walk(location):
8     for item in dirs:
9         if os.path.isdir(os.path.join(subdir, item)):
10             directories.append(item)
11     for item in files:
12         if os.path.isfile(os.path.join(subdir, item)):
13             filesList.append(item)
14
15 print('Dirs & Subdirs:\n', directories)
16 print('Files:\n', filesList)
```

Q5. 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

A screenshot of a code editor with three tabs: q1.py, q5.py, and q2.py. The q5.py tab is active, showing a Python script that uses os.walk to traverse a directory and write file and directory names to two text files. The script is as follows:

```
2
3 # location = 'F:/'
4 location = '../lab6'
5
6 directories = open('Directories.txt', 'w')
7 fileList = open('Files.txt', 'w')
8
9 for subdir, dirs, files in os.walk(location):
10     for item in dirs:
11         if os.path.isdir(os.path.join(subdir, item)):
12             directories.write(item)
13             directories.write('\n')
14     for item in files:
15         if os.path.isfile(os.path.join(subdir, item)):
16             fileList.write(item)
17             fileList.write('\n')
18
```

Q6. Write a python script which creates four new files in the current directory using Power

A screenshot of a Windows PowerShell terminal window. The title bar says "Select Windows PowerShell". The terminal shows the command prompt, the path, and the execution of a Python script that creates four files. The output of the script is displayed below the code.

```
Select Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS E:\DOCs\Winter_Semester_2020-2021\SecureCoding\Lab\lab6> python
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> for i in range(4):
...     file = open('file(%s).txt' %(i), 'x')
...     file.close()
...     print('file(%s) created' %(i))
...
file(0) created
file(1) created
file(2) created
file(3) created
>>>
```