Secure Coding -Lab6

AKASH P
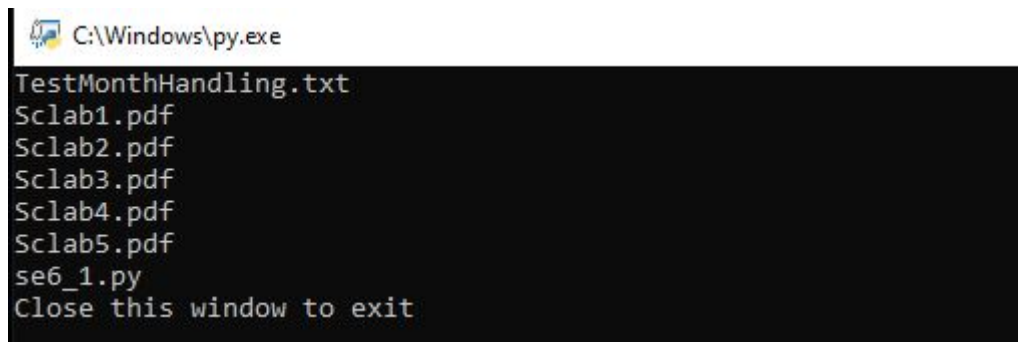18BCN7078

Questions :

1.

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

PYTHON SCRIPT :

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

OUTPUT :

2.

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

Python Script :
import os

```
directory_contents = os.listdir(".")
for item in directory_contents:
    if os.path.isdir(item):
        print(item)
```

```
PS C:\Users\AKASH\Desktop> python se6_2.py
.\18BCN7078
.\Secure Lab
PS C:\Users\AKASH\Desktop>
```

3

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

Python script :

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

```
PS C:\Users\AKASH\Desktop> python se6_3.py
.\18BCN7078
.\Secure Lab
PS C:\Users\AKASH\Desktop>
```

4

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

Python script :

```
import os
def recursive(dir, ext):
    subfolders, files = [], []

    for f in os.scandir(dir):
        if f.is_dir():
            subfolders.append(f.path)
            print(f)
        if f.is_file():
```

```
            files.append(f.path)
            print(f)


    for dir in list(subfolders):
        sf, f = recursive(dir, ext)
        subfolders.extend(sf)
        files.extend(f)
    return subfolders, files


subfolders, files = recursive(".", ["."])
```
Output :
Executed successfully

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.

Python Script:
```
import os
def recursive(dir, ext):
    subfolders, files = [], []
    for f in os.scandir(dir):
        if f.is_dir():
            subfolders.append(f.path)
            with open('direct.txt', 'a') as g:
                    print(f,file=g)
        if f.is_file():
                files.append(f.path)
                with open('direct.txt', 'a') as g:
                    print(f,file=g)
    for dir in list(subfolders):
        sf, f = recursive(dir, ext)
        subfolders.extend(sf)
        files.extend(f)
    return subfolders, files


subfolders, files = recursive(".", ["."])
```

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

Python Script :

```
import os
path="."
a=int(input("enter how many files :"))
for x in range(a):
    c=str(x)
    file ='myfile'+c+'.txt'
    b=open(os.path.join(path, file), 'w')
    print(file,"created")
```