Secure Coding -Lab6

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Questions :

1.

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

2.

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

3

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

4

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

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.

6

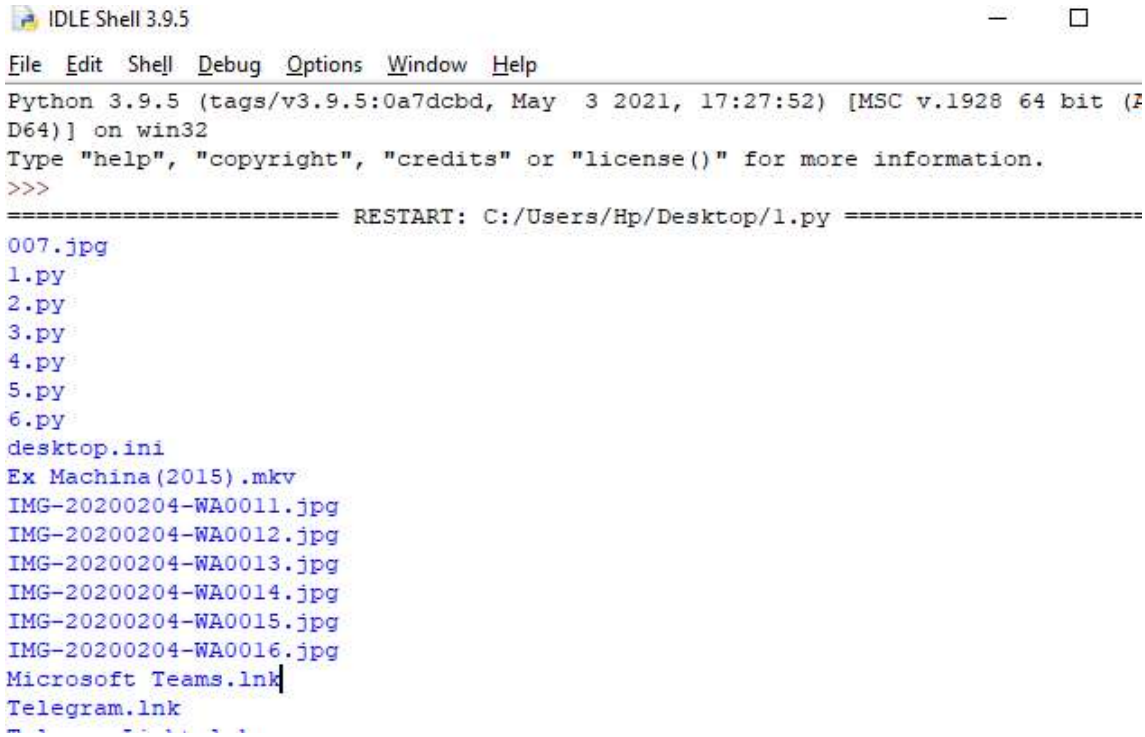
- Write a python script which creates four new files in the current directory using Powershell.

1.

PYTHON SCRIPT :

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

OUTPUT :



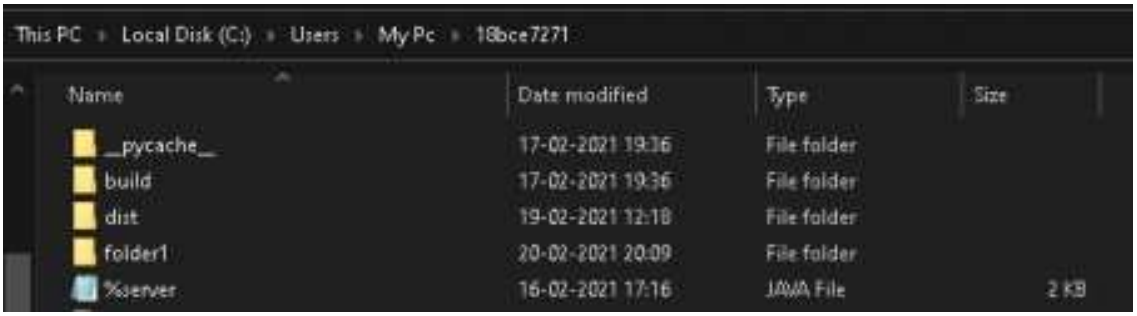
2.

Python Script :

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

Output :

```
======================== RESTART: C:/Users/Hp/Desktop/1.py ========================
chernbyl
daa
huse f cards
Main
ppp
shadw and bne
sherlch hmes
```



3.

Python script :

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

Output :

```
======================== RESTART: C:/Users/Hp/Desktop/1.py ========================
.\chernbyl
.\daa
.\huse f cards
.\Main
.\ppp
.\shadw and bne
.\sherlch hmes
.\Main\childl
.\Main\childl\child2
.\Main\childl\child2\child3
.\Main\childl\child2\child3\child4
```

4.

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 :

```
>>>
======================== RESTART: C:/Users/Hp/Desktop/1.py ==================
<DirEntry '007.jpg'>
<DirEntry '1.py'>
<DirEntry '2.py'>
<DirEntry '3.py'>
<DirEntry '4.py'>
<DirEntry '5.py'>
<DirEntry '6.py'>
<DirEntry 'chernbyl'>
<DirEntry 'daa'>
<DirEntry 'desktop.ini'>
<DirEntry 'Ex Machina(2015).mkv'>
<DirEntry 'huse f cards'>
<DirEntry 'IMG-20200204-WA0011.jpg'>
<DirEntry 'IMG-20200204-WA0012.jpg'>
<DirEntry 'IMG-20200204-WA0013.jpg'>
<DirEntry 'IMG-20200204-WA0014.jpg'>
<DirEntry 'IMG-20200204-WA0015.jpg'>
<DirEntry 'IMG-20200204-WA0016.jpg'>
<DirEntry 'Main'>
<DirEntry 'Microsoft Teams.lnk'>
<DirEntry 'ppp'>
<DirEntry 'shadw and bne'>
<DirEntry 'sherlch hmes'>
```

5.

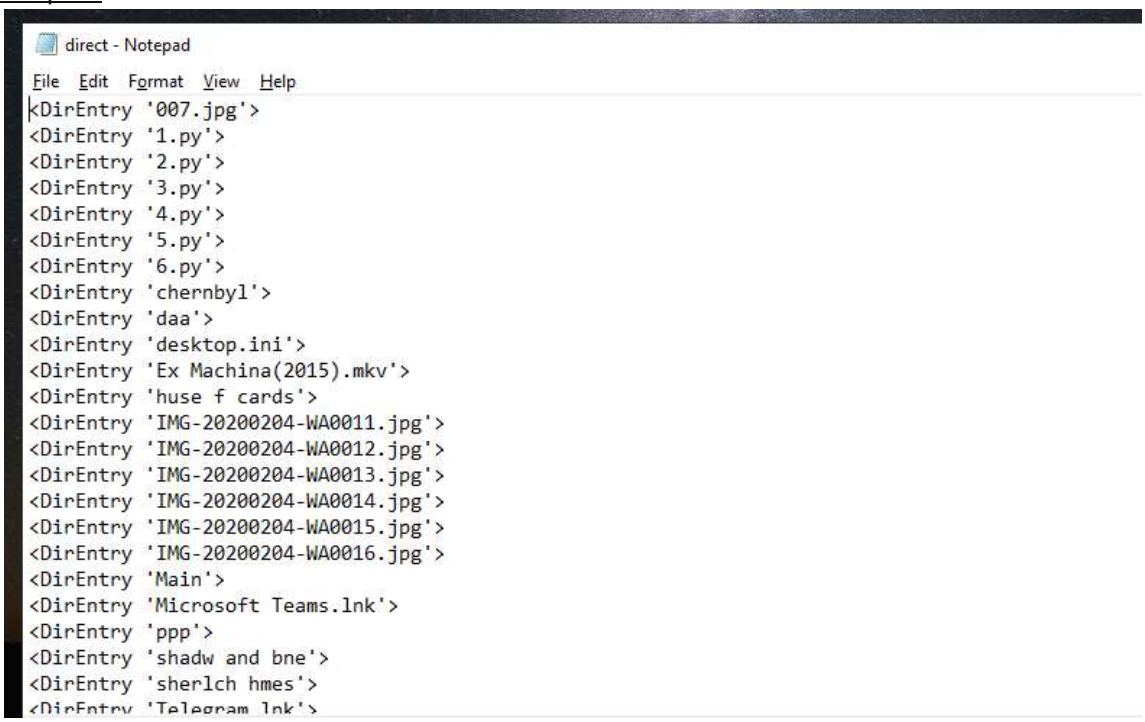
Python Script:

```
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(".", ["."])
```

Output:



6.

(Giving Input in 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")
```

Output :

```
======================== RESTART: C:/Users/Hp/Desktop/1.py ========================
enter how many files :4
18bcd70750.txt created
18bcd70751.txt created
18bcd70752.txt created
18bcd70753.txt created
>>>
```