

SECURE CODING LAB 6

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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

6

and write it to a text file.

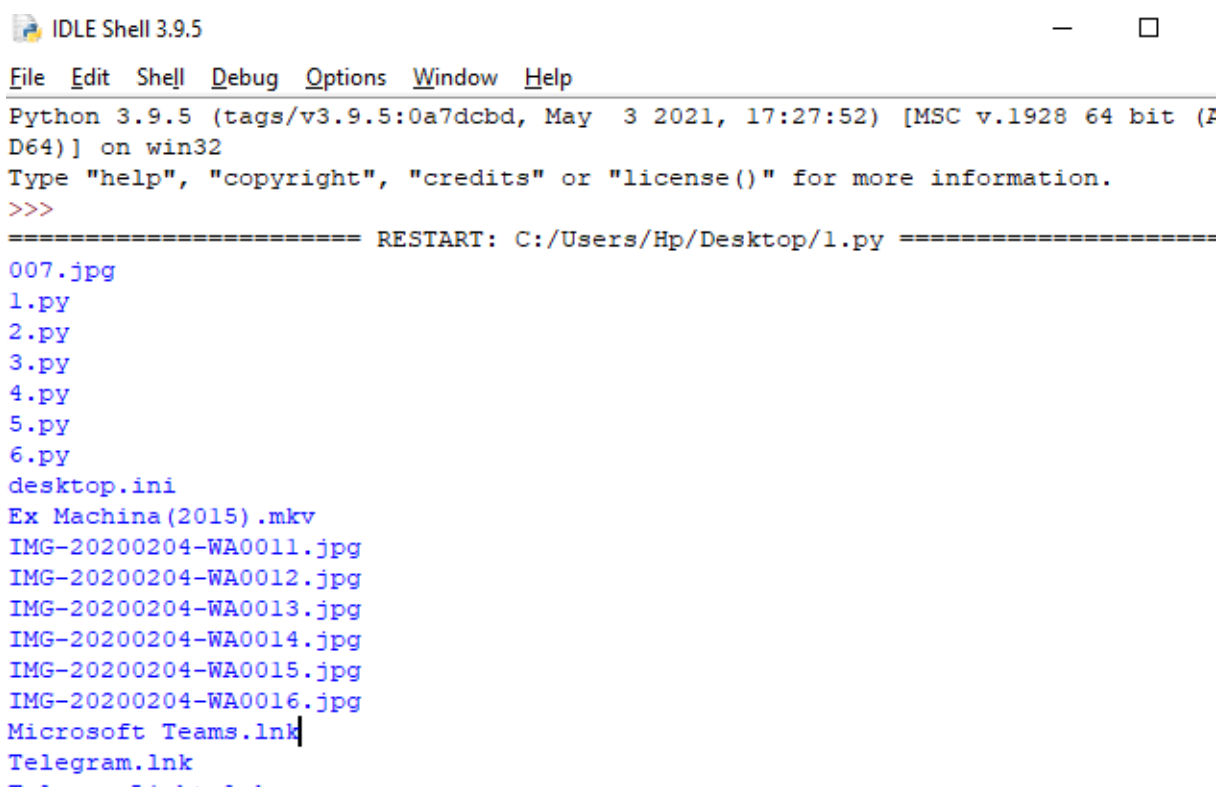
1.

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

PYTHON SCRIPT:

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

OUTPUT:



```
IDLE Shell 3.9.5
File Edit Shell Debug Options Window Help
Python 3.9.5 (tags/v3.9.5:0a7dcdb, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Hp/Desktop/l.py =====
007.jpg
1.py
2.py
3.py
4.py
5.py
6.py
desktop.ini
Ex Machina (2015).mkv
IMG-20200204-WA0011.jpg
IMG-20200204-WA0012.jpg
IMG-20200204-WA0013.jpg
IMG-20200204-WA0014.jpg
IMG-20200204-WA0015.jpg
IMG-20200204-WA0016.jpg
Microsoft Teams.lnk
Telegram.lnk
```

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.

Name	Date modified	Type	Size
__pycache__	17-02-2021 19:36	File folder	
build	17-02-2021 19:36	File folder	
dist	19-02-2021 12:18	File folder	
folder1	20-02-2021 20:09	File folder	
%server	16-02-2021 17:16	JAVA File	2 KB

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\child1
.\Main\child1\child2
.\Main\child1\child2\child3
.\Main\child1\child2\child3\child4
.
```

4.

Python script:

```

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/l.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:

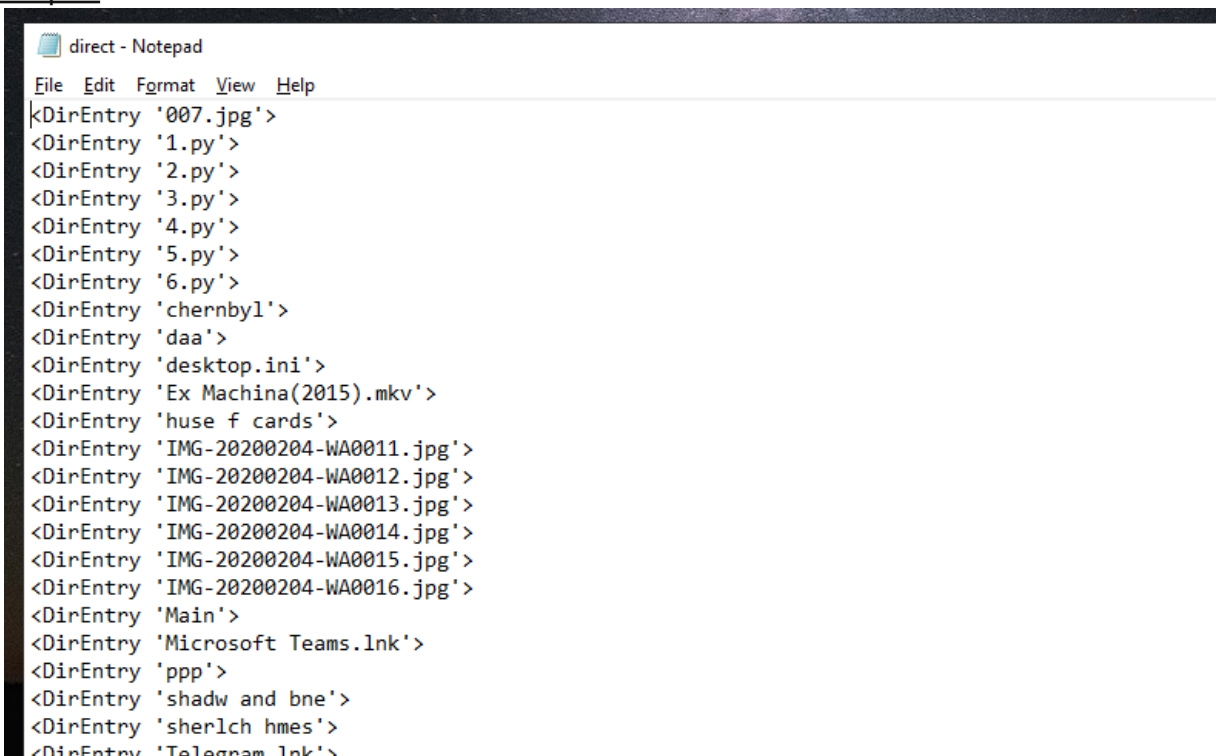
```

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:



```

direct - Notepad
File Edit Format View Help
<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 'sherlich hmes'>
<DirEntry 'Telegram.lnk'>

```

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  
>>> |
```
