

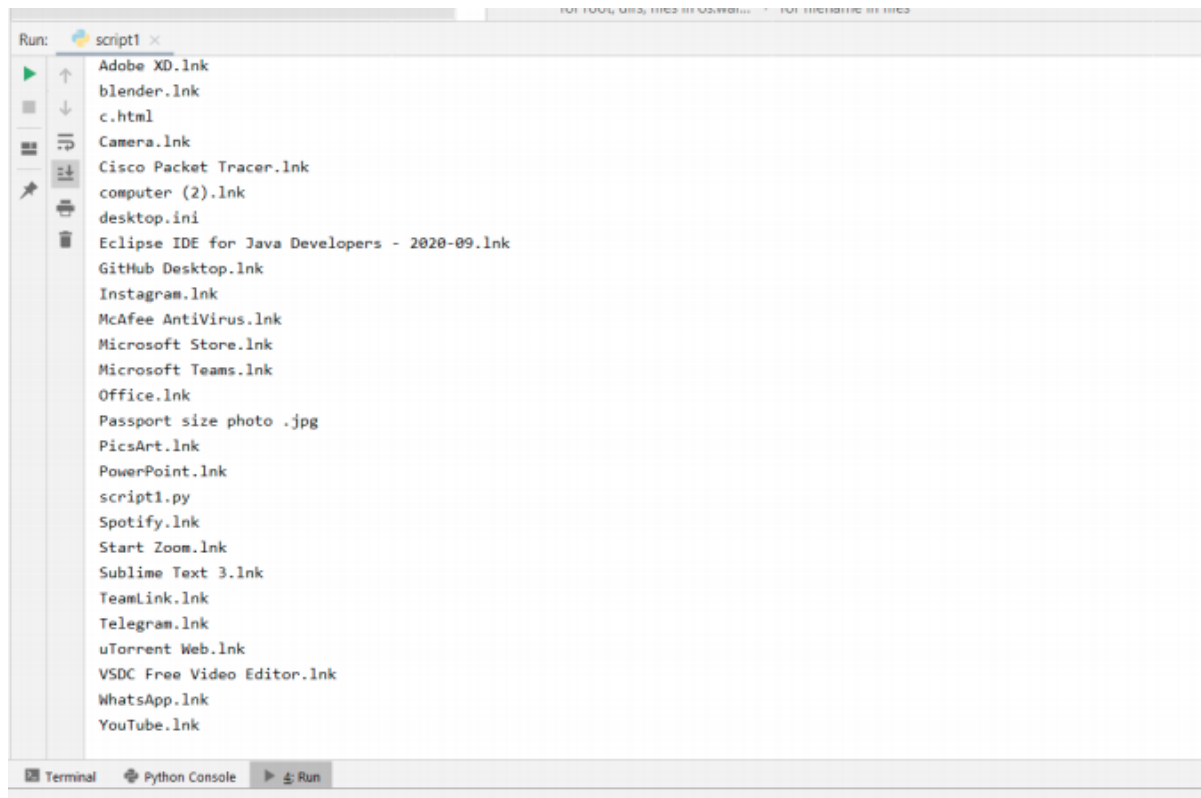
SECURE CODING LAB - 6

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

Code:

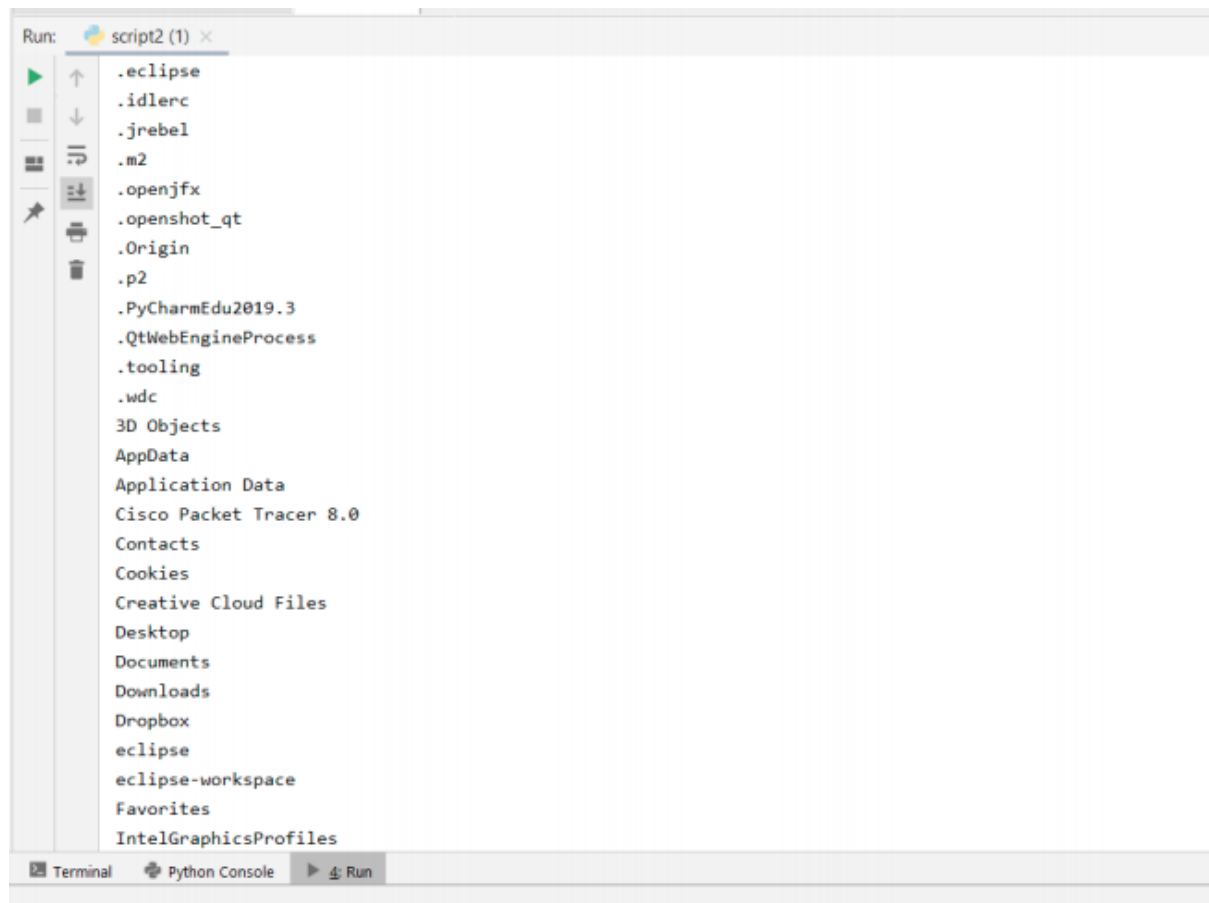
```
import os
for root, dirs, files in os.walk("."):
    for filename in files:
        print(filename)
```



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

Code:

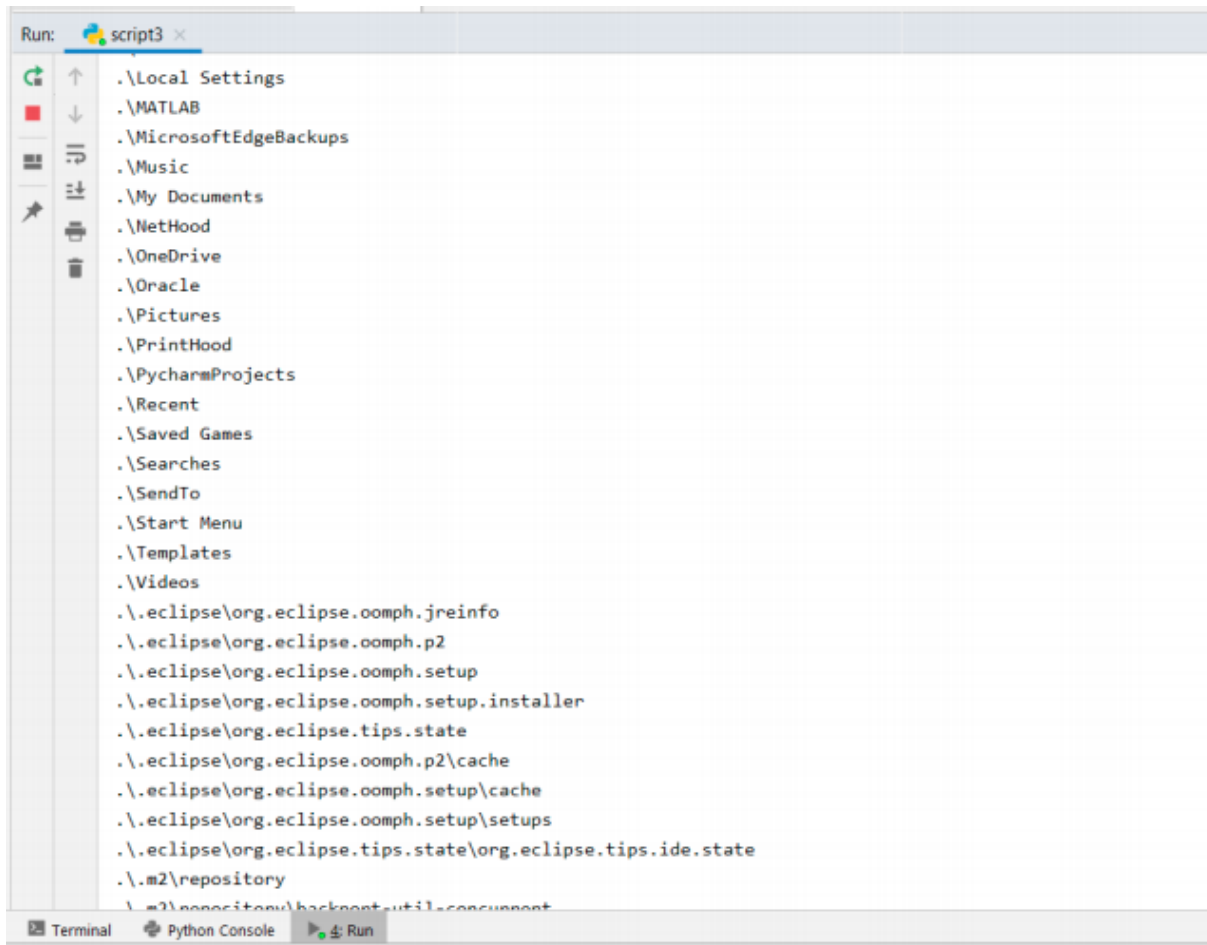
```
import os
directory_contents = os.listdir(".")
for item in directory_contents:
    if os.path.isdir(item):
        print(item)
```



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

Code:

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



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

```
2 def recursive(dir, ext):
3     subfolders, files = [], []
4
5     for f in os.scandir(dir):
6         if f.is_dir():
7             subfolders.append(f.path)
8             print(f)
9         if f.is_file():
10            files.append(f.path)
11            print(f)
12
13
14     for dir in list(subfolders):
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
<DirEntry 'METADATA.toml'>
<DirEntry '__init__.pyi'>
<DirEntry 'first.pyi'>
<DirEntry 'METADATA.toml'>
<DirEntry 'flask'>
<DirEntry 'METADATA.toml'>
<DirEntry 'app.pyi'>
<DirEntry 'blueprints.pyi'>
<DirEntry 'cli.pyi'>
<DirEntry 'config.pyi'>
<DirEntry 'ctx.pyi'>
<DirEntry 'debughelpers.pyi'>
<DirEntry 'globals.pyi'>
<DirEntry 'helpers.pyi'>
<DirEntry 'json'>
<DirEntry 'logging.pyi'>
<DirEntry 'sessions.pyi'>
<DirEntry 'signals.pyi'>
<DirEntry 'templating.pyi'>
```

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.

Code:

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

```

```

3     subfolders, files = [], []
4     for f in os.scandir(dir):
5         if f.is_dir():
6             subfolders.append(f.path)
7             with open('direct.txt', 'a') as g:
8                 print(f,file=g)
9             if f.is_file():
10                files.append(f.path)
11                with open('direct.txt', 'a') as g:
12                    print(f,file=g)
13        for dir in list(subfolders):
14            sf, f = recursive(dir, ext)
15            subfolders.extend(sf)
16            files.extend(f)
17    return subfolders, files
18
19
20    subfolders, files = recursive(".", ["."])

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

IndentationError: unindent does not match any outer indentation level

MOUNIKA@LAPTOP-OT4TJ0VC MINGW64 ~

\$ python c:/Users/MOUNIKA/OneDrive/Desktop/script5.py

Traceback (most recent call last):

File "c:\Users\MOUNIKA\OneDrive\Desktop\script5.py", line 20, in <module>
subfolders, files = recursive(".", ["."])

File "c:\Users\MOUNIKA\OneDrive\Desktop\script5.py", line 14, in recursive
sf, f = recursive(dir, ext)

File "c:\Users\MOUNIKA\OneDrive\Desktop\script5.py", line 14, in recursive
sf, f = recursive(dir, ext)

File "c:\Users\MOUNIKA\OneDrive\Desktop\script5.py", line 14, in recursive

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

Code:

```

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")

```

External Libraries
Scratches and Consoles

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

Run: script6 x

enter how many files:4
myfile0.txt created
myfile1.txt created
myfile2.txt created
myfile3.txt created
Process finished with exit code 0