SECURE CODING LAB - 6

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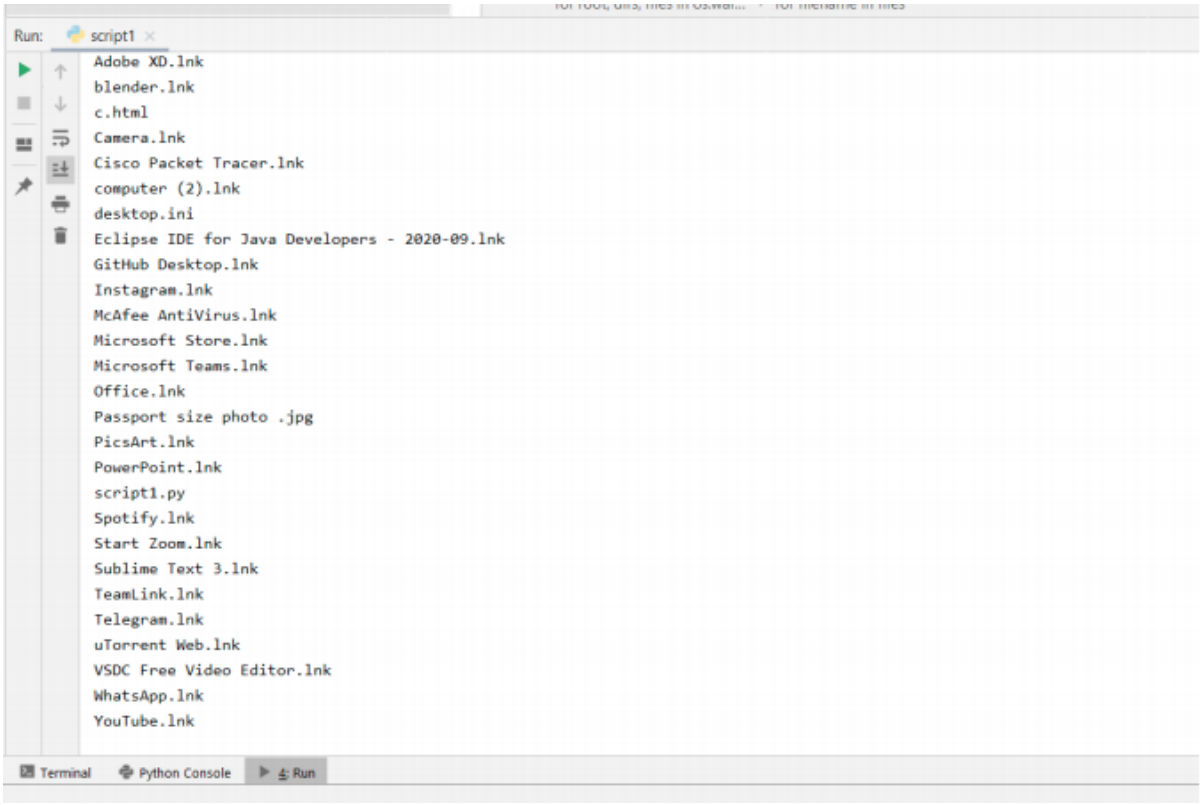
1. Write a python script to get all the file names in the current directory

Code:

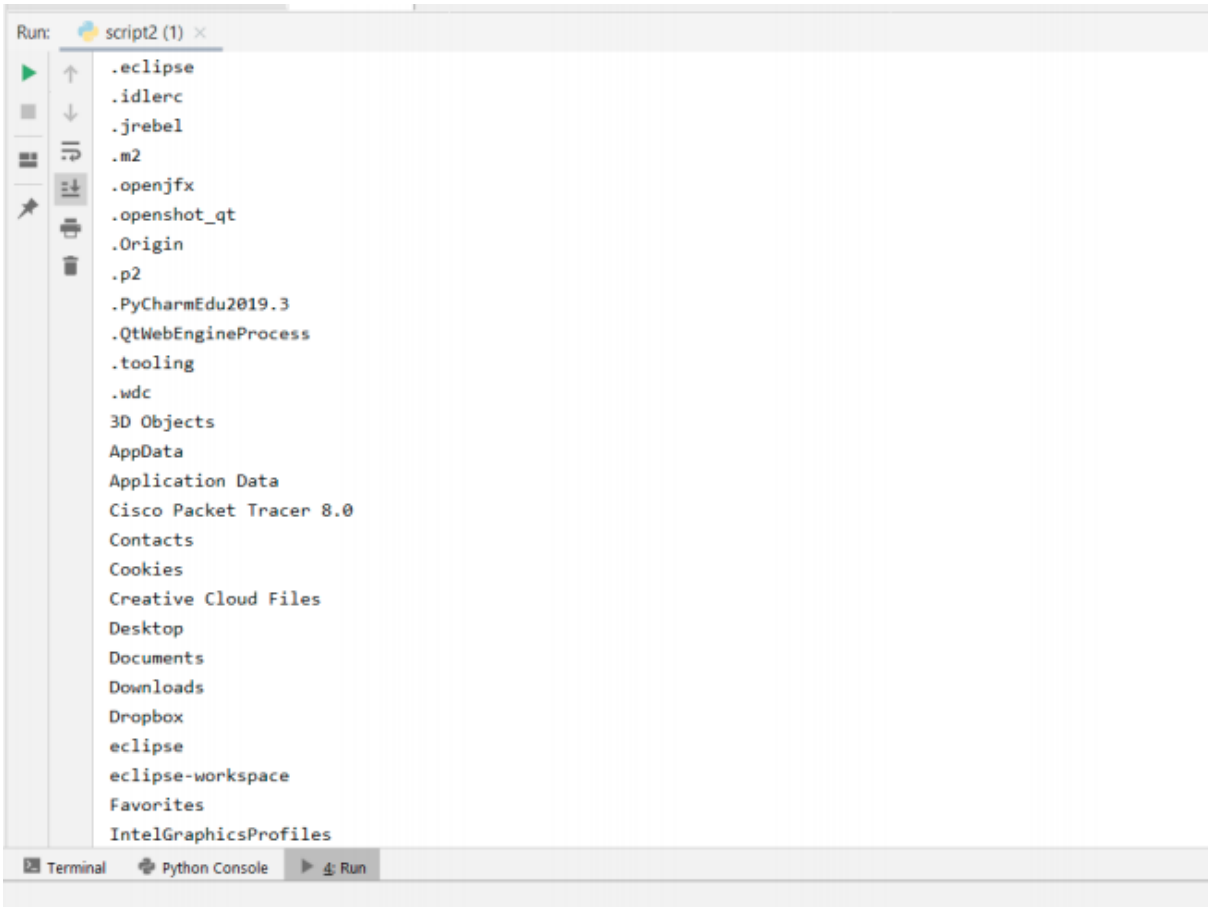
```
import os
for root, dirs, files in os.walk("."):
for filename in files:
print(filename)
```



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

Code:

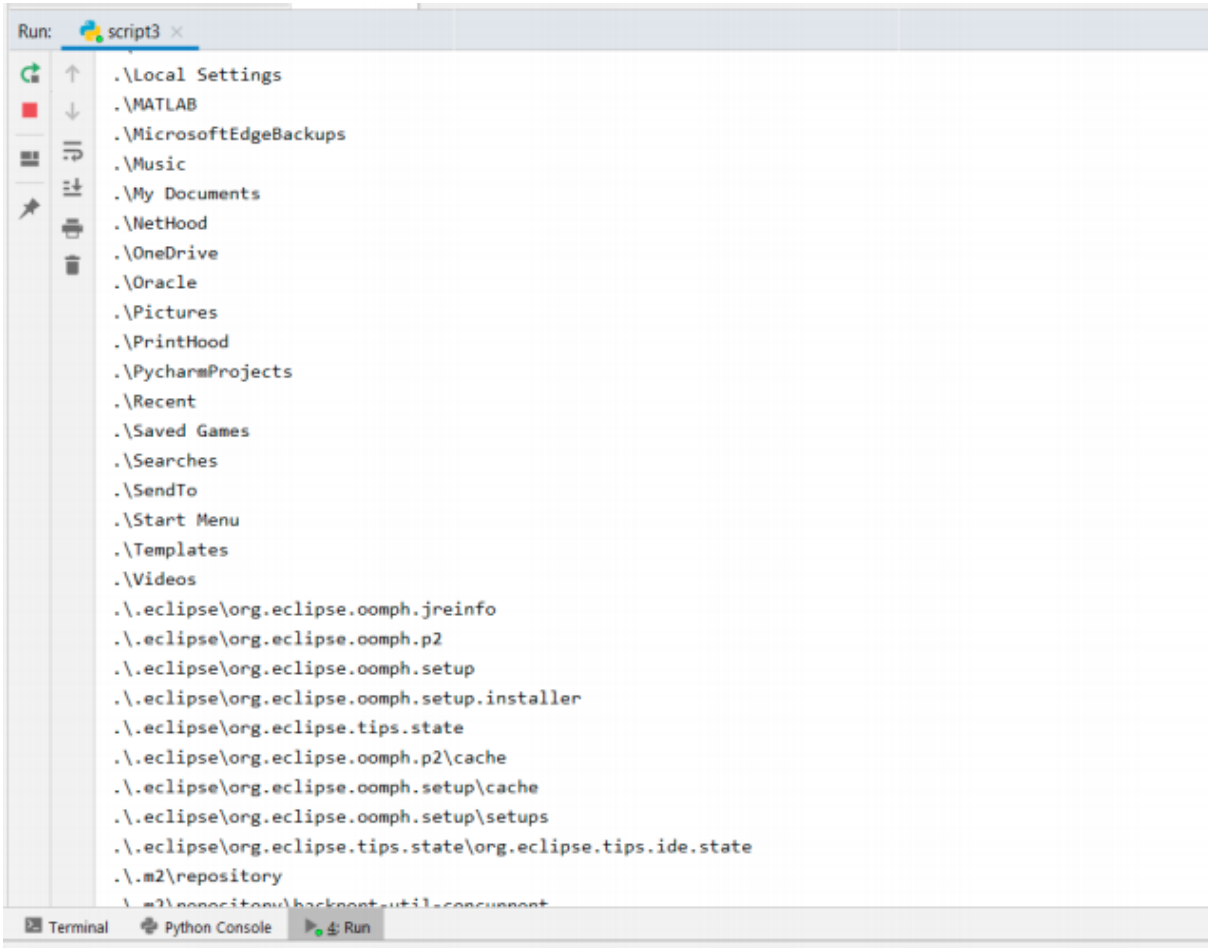
```
import os
directory_contents = os.listdir(".")
for item in directory_contents:
 if os.path.isdir(item):
 print(item)
```



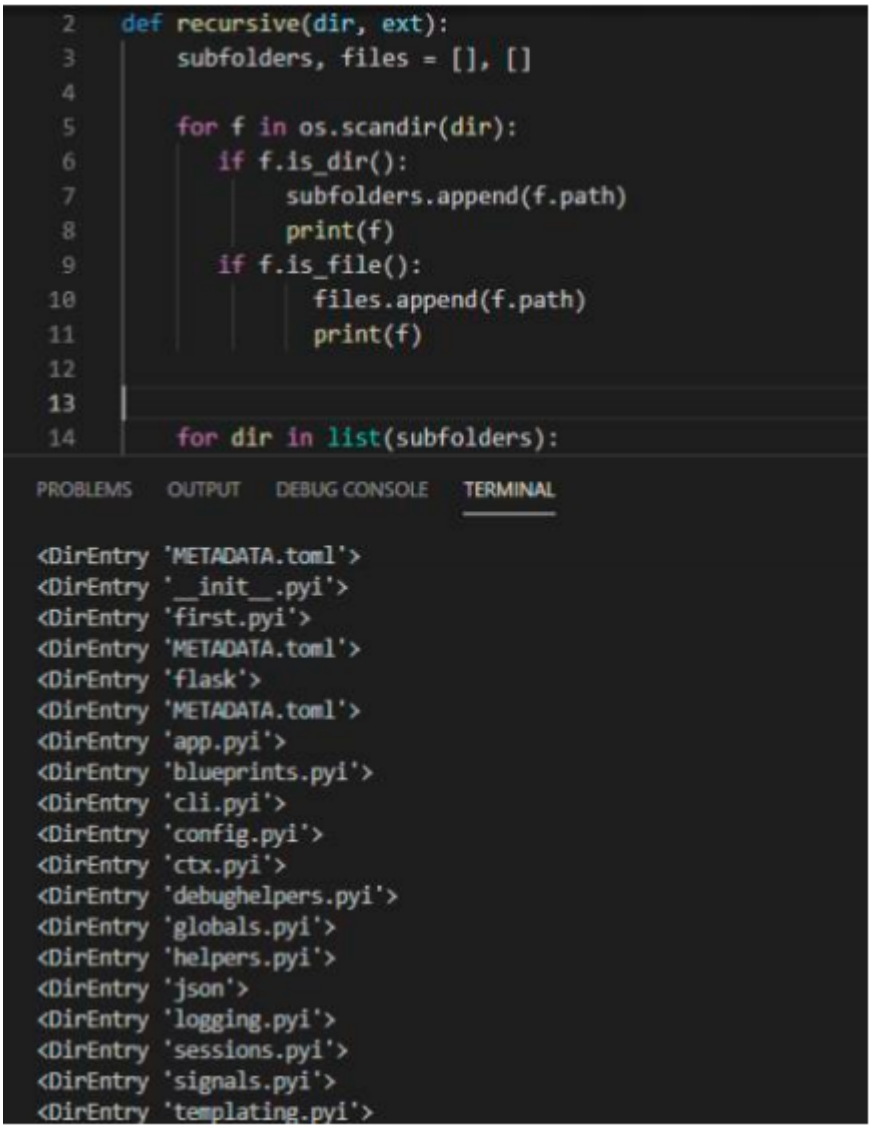
3. Write a python script to get all the directory and subdirectory names in the current directory

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

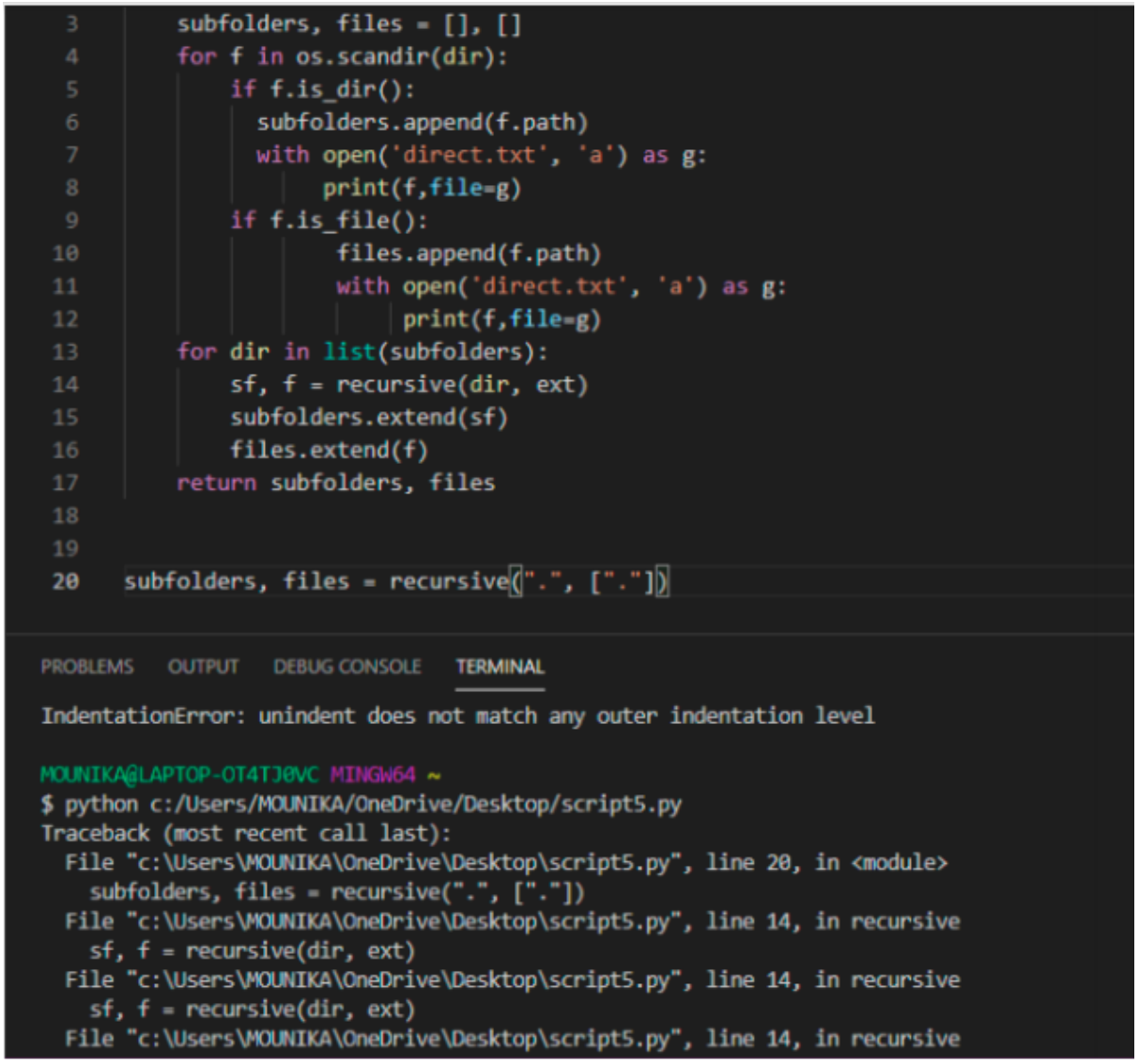


5. Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current drive and write it to a text file.

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)
```

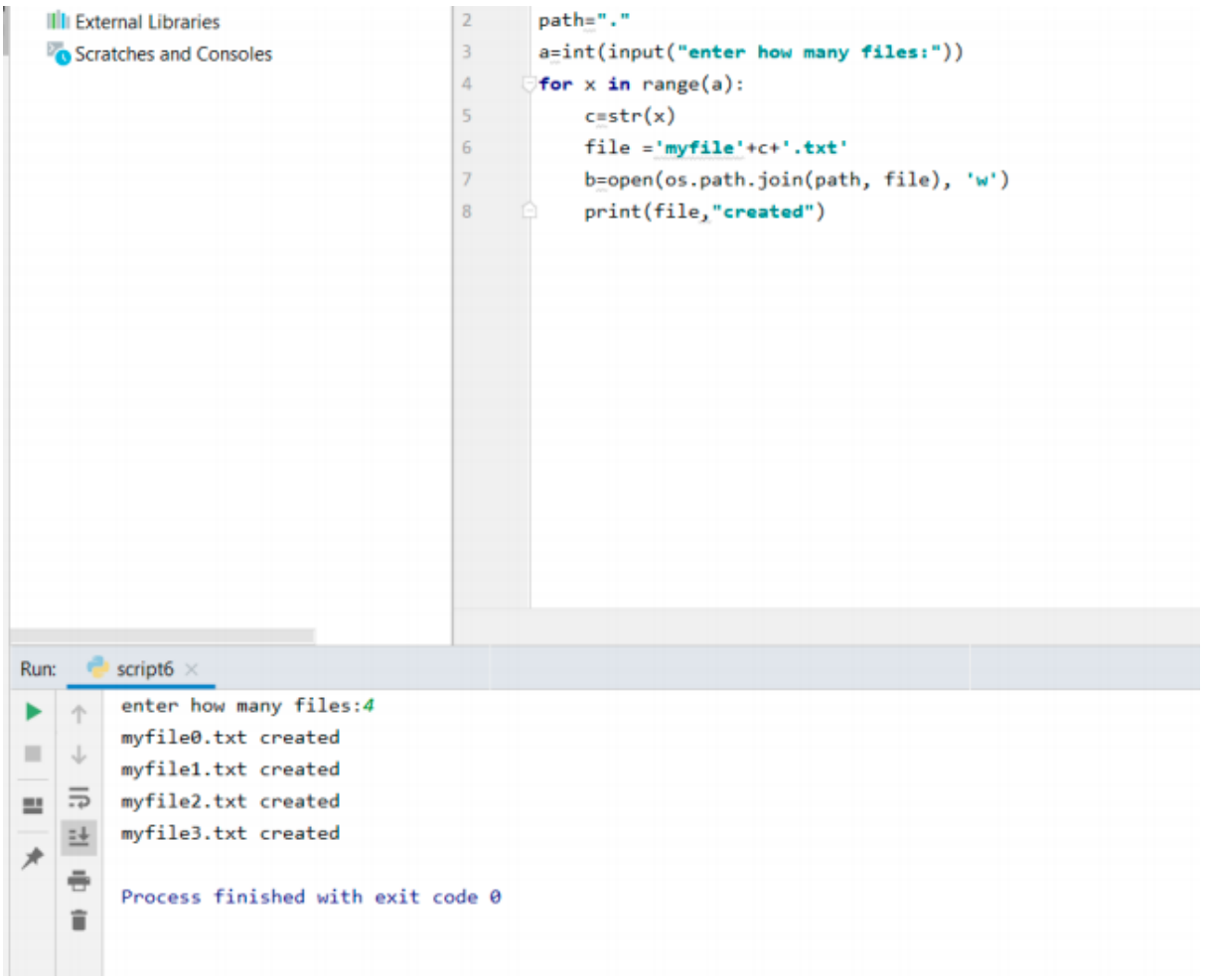
subfolders.extend(sf)
files.extend(f)
return subfolders, files
subfolders, files = recursive(".",["."])



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

```
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
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")
Run:
script6
enter how many files:4
myfile0.txt created
myfile1.txt created
myfile2.txt created
myfile3.txt created
Process finished with exit code 0