

SECURE CODING LAB-6

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LAB-6(L23+24)

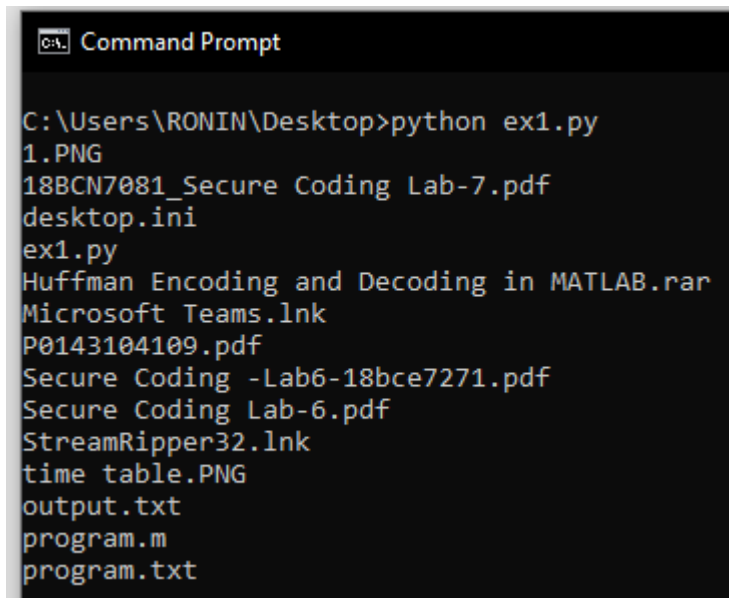
- Write a python script to get all the file names in the current directory

Ex1.py

```
import os
```

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

```
        print(filename)
```



```
C:\> Command Prompt

C:\Users\RONIN\Desktop>python ex1.py
1.PNG
18BCN7081_Secure Coding Lab-7.pdf
desktop.ini
ex1.py
Huffman Encoding and Decoding in MATLAB.rar
Microsoft Teams.lnk
P0143104109.pdf
Secure Coding -Lab6-18bce7271.pdf
Secure Coding Lab-6.pdf
StreamRipper32.lnk
time table.PNG
output.txt
program.m
program.txt
```

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

Ex1.py

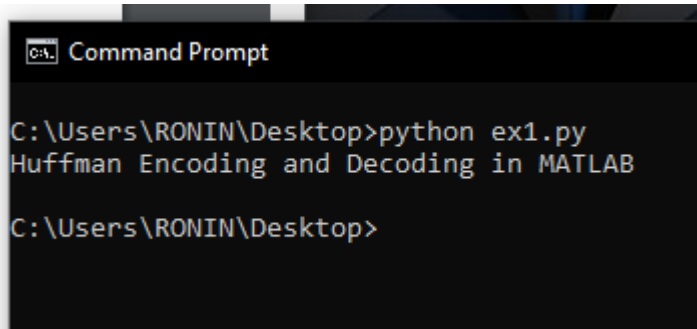
```
import os
```

```
directory_contents = os.listdir(".")
```

```
for item in directory_contents:
```

```
    if os.path.isdir(item):
```

```
        print(item)
```



```
C:\Users\RONIN\Desktop>python ex1.py
Huffman Encoding and Decoding in MATLAB
C:\Users\RONIN\Desktop>
```

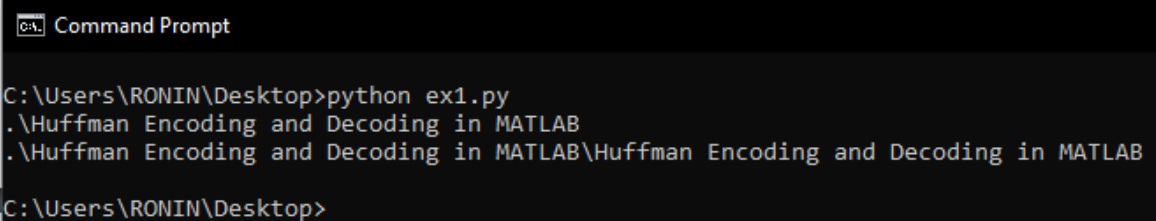
- Write a python script to get all the directory and subdirectory names in the current directory

Ex1.py

```
import os
```

```
for root, dirs, files in os.walk("."):
    for name in dirs:
```

```
        print (os.path.join(root, name))
```



```
C:\Users\RONIN\Desktop>python ex1.py
.\Huffman Encoding and Decoding in MATLAB
.\Huffman Encoding and Decoding in MATLAB\Huffman Encoding and Decoding in MATLAB
C:\Users\RONIN\Desktop>
```

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

Ex1.py

```
import os
```

```
def recursive(dir, ext):
```

```
    subfolders, files = [], []
```

```
    for f in os.scandir(dir):
```

```
        if f.is_dir():
```

```
            subfolders.append(f.path)
```

```
            print(f)
```

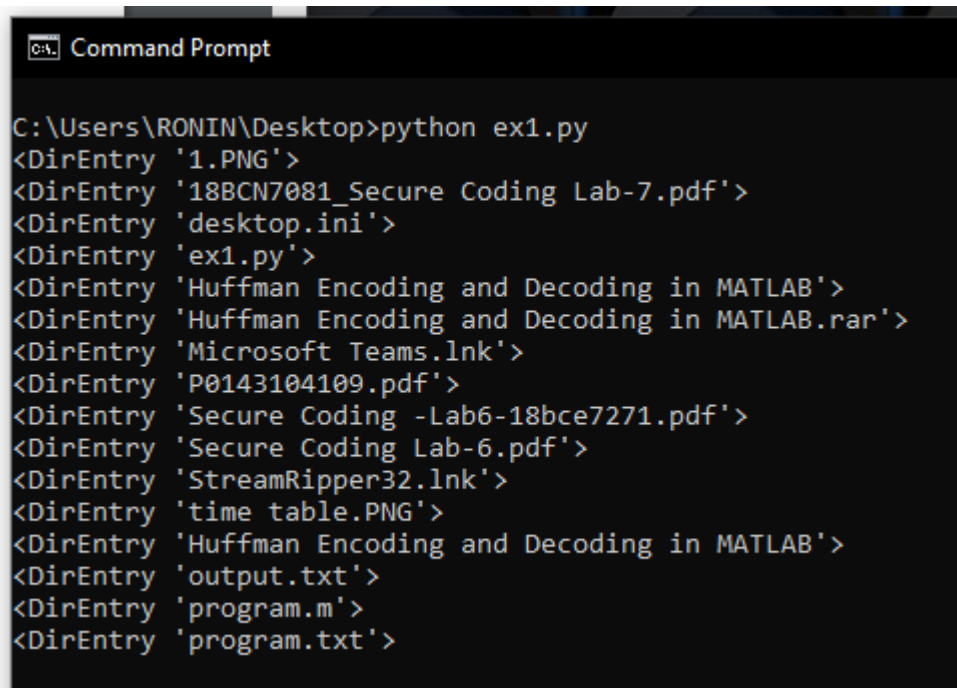
```
        if f.is_file():
```

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



```
C:\Users\RONIN\Desktop>python ex1.py  
<DirEntry '1.PNG'>  
<DirEntry '18BCN7081_Secure Coding Lab-7.pdf'>  
<DirEntry 'desktop.ini'>  
<DirEntry 'ex1.py'>  
<DirEntry 'Huffman Encoding and Decoding in MATLAB'>  
<DirEntry 'Huffman Encoding and Decoding in MATLAB.rar'>  
<DirEntry 'Microsoft Teams.lnk'>  
<DirEntry 'P0143104109.pdf'>  
<DirEntry 'Secure Coding -Lab6-18bce7271.pdf'>  
<DirEntry 'Secure Coding Lab-6.pdf'>  
<DirEntry 'StreamRipper32.lnk'>  
<DirEntry 'time table.PNG'>  
<DirEntry 'Huffman Encoding and Decoding in MATLAB'>  
<DirEntry 'output.txt'>  
<DirEntry 'program.m'>  
<DirEntry 'program.txt'>
```

- 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.

Ex1.py

```
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):

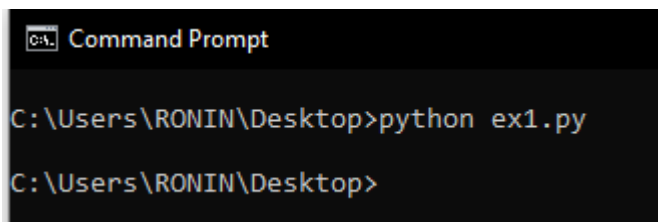
    sf, f = recursive(dir, ext)

    subfolders.extend(sf)

    files.extend(f)

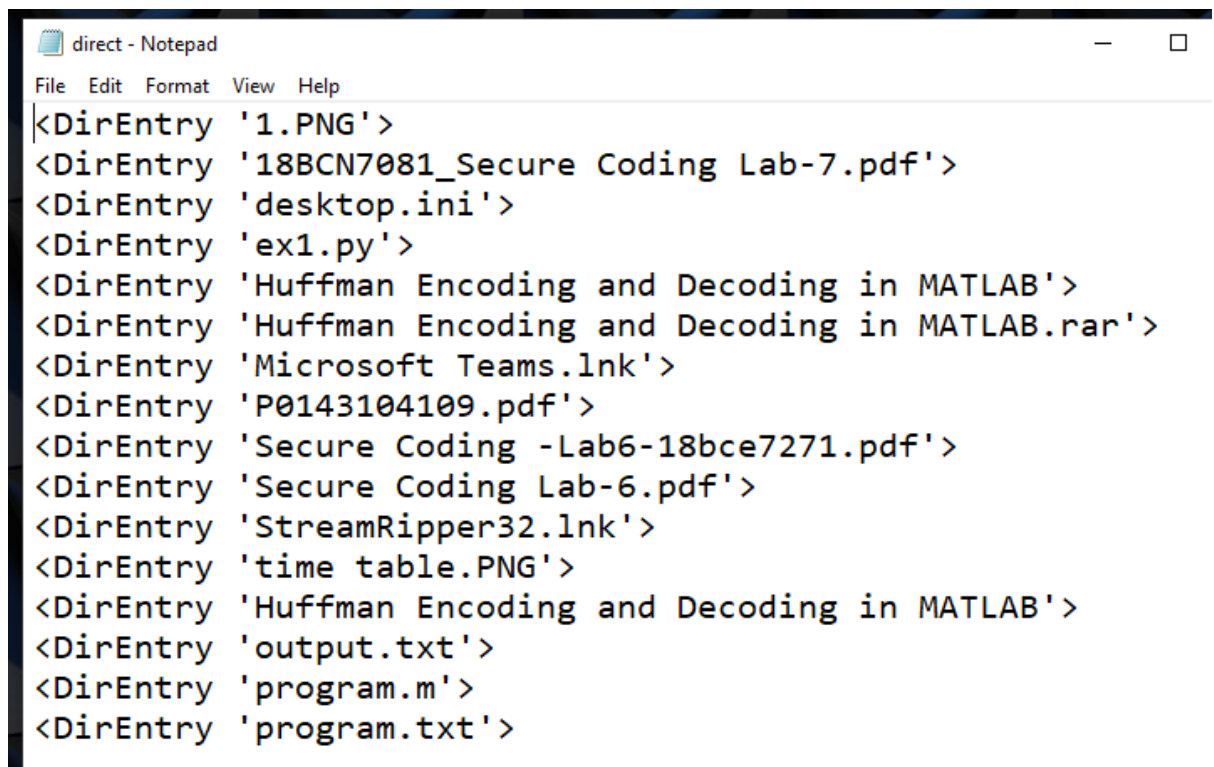
return subfolders, files
```

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



```
C:\Users\RONIN\Desktop>python ex1.py
C:\Users\RONIN\Desktop>
```

A screenshot of a Windows Command Prompt window. The title bar reads "C:\> Command Prompt". The command prompt shows the user's current directory as "C:\Users\RONIN\Desktop" and the command "python ex1.py" being executed. The prompt then returns to "C:\Users\RONIN\Desktop>" on the next line.

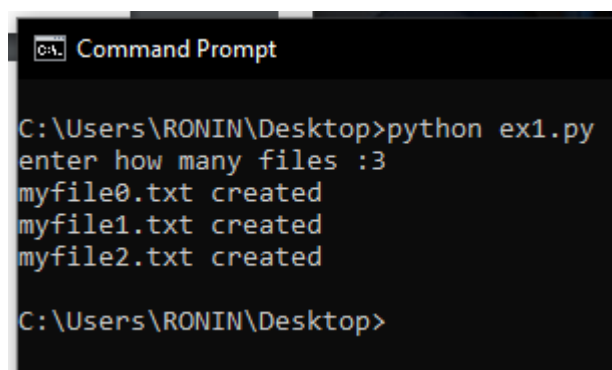


```
direct - Notepad
File Edit Format View Help
<DirEntry '1.PNG'>
<DirEntry '18BCN7081_Secure Coding Lab-7.pdf'>
<DirEntry 'desktop.ini'>
<DirEntry 'ex1.py'>
<DirEntry 'Huffman Encoding and Decoding in MATLAB'>
<DirEntry 'Huffman Encoding and Decoding in MATLAB.rar'>
<DirEntry 'Microsoft Teams.lnk'>
<DirEntry 'P0143104109.pdf'>
<DirEntry 'Secure Coding -Lab6-18bce7271.pdf'>
<DirEntry 'Secure Coding Lab-6.pdf'>
<DirEntry 'StreamRipper32.lnk'>
<DirEntry 'time table.PNG'>
<DirEntry 'Huffman Encoding and Decoding in MATLAB'>
<DirEntry 'output.txt'>
<DirEntry 'program.m'>
<DirEntry 'program.txt'>
```

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

Ex1.py(With user input)

```
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")
```



```
C:\Users\RONIN\Desktop>python ex1.py
enter how many files :3
myfile0.txt created
myfile1.txt created
myfile2.txt created

C:\Users\RONIN\Desktop>
```

Ex1.py(without user input)

```
process = subprocess.Popen(["powershell", "New-Item  
18BCN7036_FILE4.txt,18BCN7036_FILE5.txt,18BCN7036_FILE6.txt,18BCN7036_FILE7.txt"],st  
dout=subprocess.PIPE)  
  
result=process.communicate()[0]  
  
print(result)
```

```
C:\ Command Prompt
Microsoft Windows [Version 10.0.19042.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\RONIN>
C:\Users\RONIN>cd desktop

C:\Users\RONIN\Desktop>python ex1.py
b'New-Item : The file 'C:\\Users\\RONIN\\Desktop\\18BCN7036_FILE4.txt' already exists.\nAt line:1 char:1\n+ CategoryInfo          : WriteError: (C:\\Users\\RONIN\\...N7036_FILE4.txt:String)\n\nThe file 'C:\\Users\\RONIN\\Desktop\\18BCN7036_FILE5.txt' already exists.\nAt line:1 char:1\n+ CategoryInfo          : WriteError: (C:\\Users\\RONIN\\...N7036_FILE5.txt:String) [New-Item]\n\nC:\\Users\\RONIN\\Desktop\\18BCN7036_FILE6.txt' already exists.\nAt line:1 char:1\n+ New-Item 18BCN7036_FILE7.txt' already exists.\nAt line:1 char:1\n+ New-Item 18BCN7036_FILE4.txt,18BCN7036_FILE6.txt,18BCN7036_FILE7.txt'\n+ CategoryInfo          : WriteError: (C:\\Users\\RONIN\\...N7036_FILE6.txt:String) [New-Item], IOException\n\nC:\\Users\\RONIN\\Desktop>
```

