

## Secure Coding -Lab6

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18BCD7118

L39 +L40

### **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 :

```
PS C:\Users\My Pc\18bcd7118> python ex1.py
%server.java
192.165.55.104
acsnmap.txt
chatclient.class
chatclient.java
chatserver.class
chatserver.java
client.class
client.java
clientbi.class
clientbi.java
clientbi.txt
data.txt
DateClient.class
DateClient.java
DateServer.class
DateServer.java
edureka.in
ex1.py
google.com
hello.py
hello.spec
MyClient.class
MyServer.class
nmap.org
server.class
server.java
serverbi.class
serverbi.java
serverui.class
serverui.java
tesmint.com
udpclient.class
udpclient.java
udpserver.class
udpserver.java
vitap.ac.in
Analysis-00.toc
```

base\_library.zip  
EXE-00.toc  
hello.exe.manifest  
PKG-00.pkg  
PKG-00.toc  
PYZ-00.pyz  
PYZ-00.toc  
Tree-00.toc  
Tree-01.toc  
Tree-02.toc  
warn-hello.txt  
xref-hello.html  
ss9.doc  
hello.cpython-39.pyc

## 2.

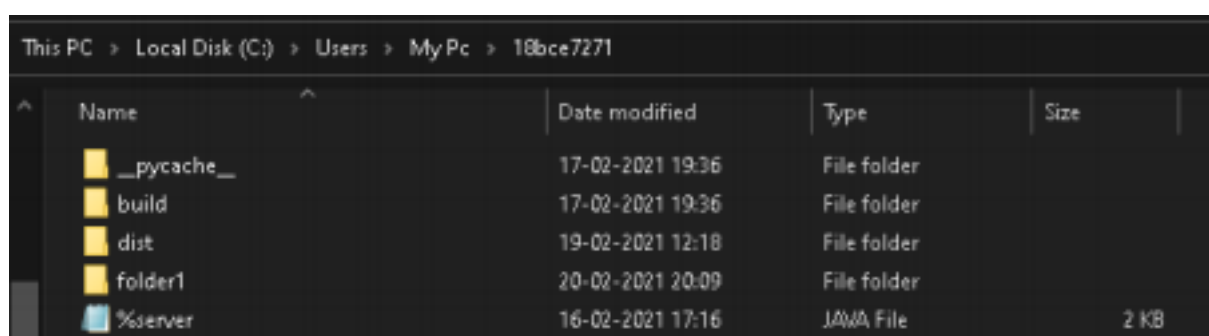
### Python Script :

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

### Output :



```
build
dist
folder1
__pycache__
```



This PC > Local Disk (C:) > Users > MyPc > 18bce7271				
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	

## 3.

### Python script :

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

Output :

```
.\build
.\dist
.\folder1
.\__pycache__
.\build\hello
.\folder1\folder2
.\folder1\folder2\folder3
.\folder1\folder2\folder3\folder4
```

**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 :

```
Executed successfully
<DirEntry '%server.java'>
<DirEntry '192.165.55.104'>
<DirEntry 'acsnmap.txt'>
<DirEntry 'build'>
<DirEntry 'chatclient.class'>
<DirEntry 'chatclient.java'>
<DirEntry 'chatserver.class'>
<DirEntry 'chatserver.java'>
```

<DirEntry 'client.class'>  
<DirEntry 'client.java'>  
<DirEntry 'clientbi.class'>  
<DirEntry 'clientbi.java'>  
<DirEntry 'clientbi.txt'>  
<DirEntry 'data.txt'>  
<DirEntry 'DateClient.class'>  
<DirEntry 'DateClient.java'>  
<DirEntry 'DateServer.class'>  
<DirEntry 'DateServer.java'>  
<DirEntry 'direct.txt'>  
<DirEntry 'dist'>  
<DirEntry 'edureka.in'>  
<DirEntry 'ex1.py'>  
<DirEntry 'ex2.py'>  
<DirEntry 'ex3.py'>  
<DirEntry 'ex4.py'>  
<DirEntry 'ex4.txt'>  
<DirEntry 'folder1'>  
<DirEntry 'google.com'>  
<DirEntry 'hello.py'>  
<DirEntry 'hello.spec'>  
<DirEntry 'MyClient.class'>  
<DirEntry 'MyServer.class'>  
<DirEntry 'nmap.org'>  
<DirEntry 'server.class'>  
<DirEntry 'server.java'>  
<DirEntry 'serverbi.class'>  
<DirEntry 'serverbi.java'>  
<DirEntry 'serverui.class'>  
<DirEntry 'serverui.java'>  
<DirEntry 'tesmint.com'>  
<DirEntry 'tf.csv'>  
<DirEntry 'udpclient.class'>  
<DirEntry 'udpclient.java'>  
<DirEntry 'udpserver.class'>  
<DirEntry 'udpserver.java'>  
<DirEntry 'vitap.ac.in'>  
<DirEntry '\_\_pycache\_\_'>  
<DirEntry 'hello'>  
<DirEntry 'Analysis-00.toc'>  
<DirEntry 'base\_library.zip'>  
<DirEntry 'EXE-00.toc'>  
<DirEntry 'hello.exe.manifest'>  
<DirEntry 'PKG-00.pkg'>  
<DirEntry 'PKG-00.toc'>

```
<DirEntry 'PYZ-00.pyz'>
<DirEntry 'PYZ-00.toc'>
<DirEntry 'Tree-00.toc'>
<DirEntry 'Tree-01.toc'>
<DirEntry 'Tree-02.toc'>
<DirEntry 'warn-hello.txt'>
<DirEntry 'xref-hello.html'>
<DirEntry 'folder2'>
<DirEntry 'folder3'>
<DirEntry 'folder4'>
<DirEntry 'ss9.doc'>
<DirEntry 'hello.cpython-39.pyc'>
```

## 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:

Executed successfully

we got all the files in the text file

```
<DirEntry '%server.java'>
<DirEntry '192.165.55.104'>
<DirEntry 'acsnmap.txt'>
<DirEntry 'build'>
<DirEntry 'chatclient.class'>
<DirEntry 'chatclient.java'>
<DirEntry 'chatserver.class'>
<DirEntry 'chatserver.java'>
<DirEntry 'client.class'>
<DirEntry 'client.java'>
<DirEntry 'clientbi.class'>
<DirEntry 'clientbi.java'>
<DirEntry 'clientbi.txt'>
<DirEntry 'data.txt'>
<DirEntry 'DateClient.class'>
<DirEntry 'DateClient.java'>
<DirEntry '%server.java'>
<DirEntry '192.165.55.104'>
<DirEntry 'acsnmap.txt'>
<DirEntry 'build'>
<DirEntry 'chatclient.class'>
<DirEntry 'chatclient.java'>
<DirEntry 'chatserver.class'>
<DirEntry 'chatserver.java'>
<DirEntry 'client.class'>
<DirEntry 'client.java'>
<DirEntry 'clientbi.class'>
<DirEntry 'clientbi.java'>
<DirEntry 'clientbi.txt'>
<DirEntry 'data.txt'>
<DirEntry 'DateClient.class'>
<DirEntry 'DateClient.java'>
<DirEntry 'DateServer.class'>
<DirEntry 'DateServer.java'>
<DirEntry 'direct.txt'>
<DirEntry 'dist'>
<DirEntry 'edureka.in'>
<DirEntry 'ex1.py'>
<DirEntry 'ex2.py'>
<DirEntry 'ex3.py'>
<DirEntry 'ex4.py'>
<DirEntry 'ex4.txt'>
<DirEntry 'folder1'>
```

```
<DirEntry 'google.com'>
<DirEntry 'hello.py'>
<DirEntry 'hello.spec'>
<DirEntry 'MyClient.class'>
<DirEntry 'MyServer.class'>
<DirEntry 'nmap.org'>
<DirEntry 'server.class'>
<DirEntry 'server.java'>
<DirEntry 'serverbi.class'>
<DirEntry 'serverbi.java'>
<DirEntry 'serverui.class'>
<DirEntry 'serverui.java'>
<DirEntry 'tesmint.com'>
<DirEntry 'tf.csv'>
<DirEntry 'udpclient.class'>
<DirEntry 'udpclient.java'>
<DirEntry 'udpserver.class'>
<DirEntry 'udpserver.java'>
<DirEntry 'vitap.ac.in'>
<DirEntry '__pycache__'>
<DirEntry 'hello'>
<DirEntry 'Analysis-00.toc'>
<DirEntry 'base_library.zip'>
<DirEntry 'EXE-00.toc'>
<DirEntry 'hello.exe.manifest'>
<DirEntry 'PKG-00.pkg'>
<DirEntry 'PKG-00.toc'>
<DirEntry 'PYZ-00.pyz'>
<DirEntry 'PYZ-00.toc'>
<DirEntry 'Tree-00.toc'>
<DirEntry 'Tree-01.toc'>
<DirEntry 'Tree-02.toc'>
<DirEntry 'warn-hello.txt'>
<DirEntry 'xref-hello.html'>
<DirEntry 'folder2'>
<DirEntry 'folder3'>
<DirEntry 'folder4'>
<DirEntry 'ss9.doc'>
<DirEntry 'hello.cpython-39.pyc'>
```

**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 :

```

enter how many files :4
myfile0.txt created
myfile1.txt created
myfile2.txt created
myfile3.txt created

```

(without giving input in powershell)

Python Script :

```

import subprocess
process = subprocess.Popen(["powershell","New-Item
18BCD7118_FILE4.txt,18BC7118_FILE5.txt,18BCD7118_FILE6.txt,18BCD7118_FILE
7.txt"
],stdout=subprocess.PIPE)
result=process.communicate()[0]
print(result)

```

Output:

```

PS C:\Users\Hy Pc\18bcd7271> python run.py
Directory: C:\Users\Hy Pc\18bcd7271\bin\bin\binMode
LastWriteTime         Length Name
-----
06-03-2021 18:57 0
18BCD7271_FILE4.txt 06-03-2021 18:57
0 18BCD7271_FILE5.txt 06-03-2021 18:57
0 18BCD7271_FILE6.txt 06-03-2021 18:57
0 18BCD7271_FILE7.txt
PS C:\Users\Hy Pc\18bcd7271>

```