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1. PYTHON SCRIPT TO LIST ALL THE FILES IN CURRENT DIRECTORY

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

```
root@kali:/home/dj/Desktop/19BCN7090# python3 1.py  
3.py  
5.py  
2.py  
1.py  
4.py  
4-b.py  
root@kali:/home/dj/Desktop/19BCN7090#
```

2. PYTHON SCRIPT TO GET ALL THE DIRECTORY NAMES IN THE CURRENT DIRECTORY

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

```
root@kali:/home/dj/Desktop/19BCN7090# python3 2.py  
test3  
test4  
test1  
test2  
root@kali:/home/dj/Desktop/19BCN7090#
```

3. PYTHON SCRIPT TO GET ALL THE DIRECTORY AND SUB DIRECTORY NAMES

```
import os

thing= [val for sublist in [[os.path.join(i[0], j) for j in i[2]] for
i in os.walk('./')]] for val in sublist]

for x in thing:

print(x)
```

A terminal window with a dark background. The prompt is 'root@kali: /home/dj/Desktop/19BCN7090#'. The command 'python3 3.py' has been executed. The output lists several files and directories: './3.py', './5.py', './2.py', './1.py', './4.py', and './4-b.py'. The prompt is now 'root@kali: /home/dj/Desktop/19BCN7090#'.

```
root@kali: /home/dj/Desktop/19BCN7090# python3 3.py
./3.py
./5.py
./2.py
./1.py
./4.py
./4-b.py
root@kali: /home/dj/Desktop/19BCN7090#
```

4. PYTHON SCRIPT TO GET ALL THE FILENAME, DIRECTORY AND SUB DIRECTORY NAMES RECURSIVELY

```
import os

for dirpath, dirs, files in os.walk("."):

path = dirpath.split('/')

print('|', (len(path))*'---', '['os.path.basename(dirpath),']')

for f in files:

print('|', len(path)*'---', f)
```

(4-b)

```
import os

import sys

sys.stdout = open("test.txt", "w")

for dirpath, dirs, files in os.walk("."):

path = dirpath.split('/')

print('|', (len(path))*'---', '['os.path.basename(dirpath),']')
```

for f in files:

print('|', len(path)*'---', f)

sys.stdout.close()

```
root@kali:/home/dj/Desktop/19BCN7090# python3 4.py
```

```
| --- [ . ]  
| --- 3.py  
| --- 5.py  
| --- 2.py  
| --- 1.py  
| --- 4.py  
| --- 4-b.py  
| ----- [ test3 ]  
| ----- [ test4 ]  
| ----- [ test1 ]  
| ----- [ test2 ]
```

```
root@kali:/home/dj/Desktop/19BCN7090#
```

5. PYTHON SCRIPT TO CREATE FOUR NEW FILES IN THE DIRECTORY USING POWERSHELL

```
one = open("1.txt", "w")
```

```
two = open("2.txt", "w")
```

```
three = open("3.txt", "w")
```

```
four = open("4.txt", "w")
```

```
one.close()
```

```
two.close()
```

```
three.close()
```

```
four.close()
```

```
root@kali:/home/dj/Desktop/19BCN7090# python3 5.py
```

```
root@kali:/home/dj/Desktop/19BCN7090# ls
```

```
1.py  2.py  3.py  4-b.py  4.txt  test1  test3  test.txt
```

```
1.txt 2.txt 3.txt 4.py  5.py  test2  test4
```

```
root@kali:/home/dj/Desktop/19BCN7090#
```