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## LAB - 6

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

A screenshot of a Python script window titled '1.py - C:\Users\ratna\Downloads\1.py (3.8.5)'. The window has a menu bar with 'File', 'Edit', 'Format', 'Run', 'Options', 'Window', and 'Help'. The code inside the window is as follows:

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

stop=input("Close this window to exit")
```

```
*Python 3.8.5 Shell*
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ratna\Downloads\1.py =====
1.py
7YFUH520.pdf
desktop.ini
Resume.pdf
CYBER SECURITY SAMPLE QP.docx
Cyber Xerox Material.pdf
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_III_01-Oct-2020_MODULE-6_PART-3_INFORMATION_SECURITY_AUDITOR.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_II_01-Oct-2020_MODULE-6_PART-2_SECURITY_AUDIT.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_II_03-Oct-2020_MODULE-7_PART-1_SECURITY_AUDIT_PREPARATION.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_II_25-Aug-2020_MODULE-2_PART-3_SYSTEM_SECURITY.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_II_27-Aug-2020_MODULE-2_PART-5_APPLICATION_SECURITY.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_I_01-Oct-2020_MODULE-6_PART-1_SECURITY_AUDIT.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_I_01-Sep-2020_MODULE-3_PART-1_INFORMATION_SECURITY_MGMT..pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_I_03-Oct-2020_MODULE-6_PART-4_PENETRATION_TESTING.pptx
FALL2020-21_CSE4026_ETH_AF2020211000450_Reference_Material_I_03-Sep-2020_MODULE-3_PART-2_POLICIES STANDARDS GUIDELINES PROCEDURES - Copy.pptx
```

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

```
2.py - C:\Users\ratna\Downloads\2.py (3.8.5)
File Edit Format Run Options Window Help
import os
directory_contents = os.listdir(".")
for item in directory_contents:
    if os.path.isdir(item):
        print(item)

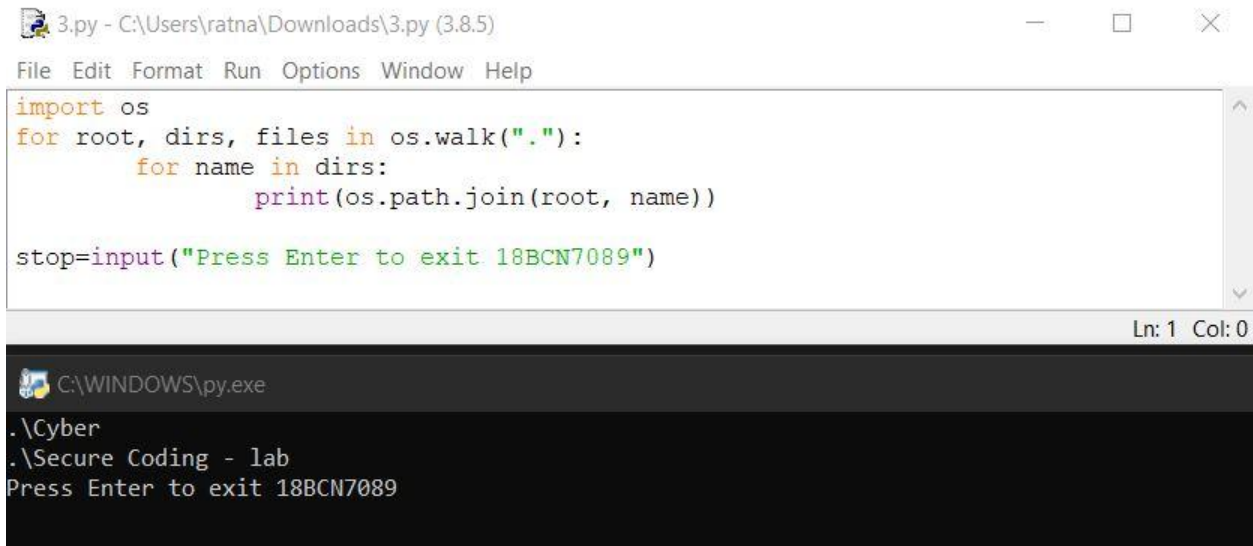
stop=input("Press Enter to exit 18BCN7089")

Ln: 1 Col: 1

*Python 3.8.5 Shell*
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ratna\Downloads\2.py =====
Cyber
Secure Coding - lab
Press Enter to exit 18BCN7089

Ln: 5 Col: 0
```

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



The screenshot shows a Python IDE window titled "3.py - C:\Users\ratna\Downloads\3.py (3.8.5)". The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The code in the editor is as follows:

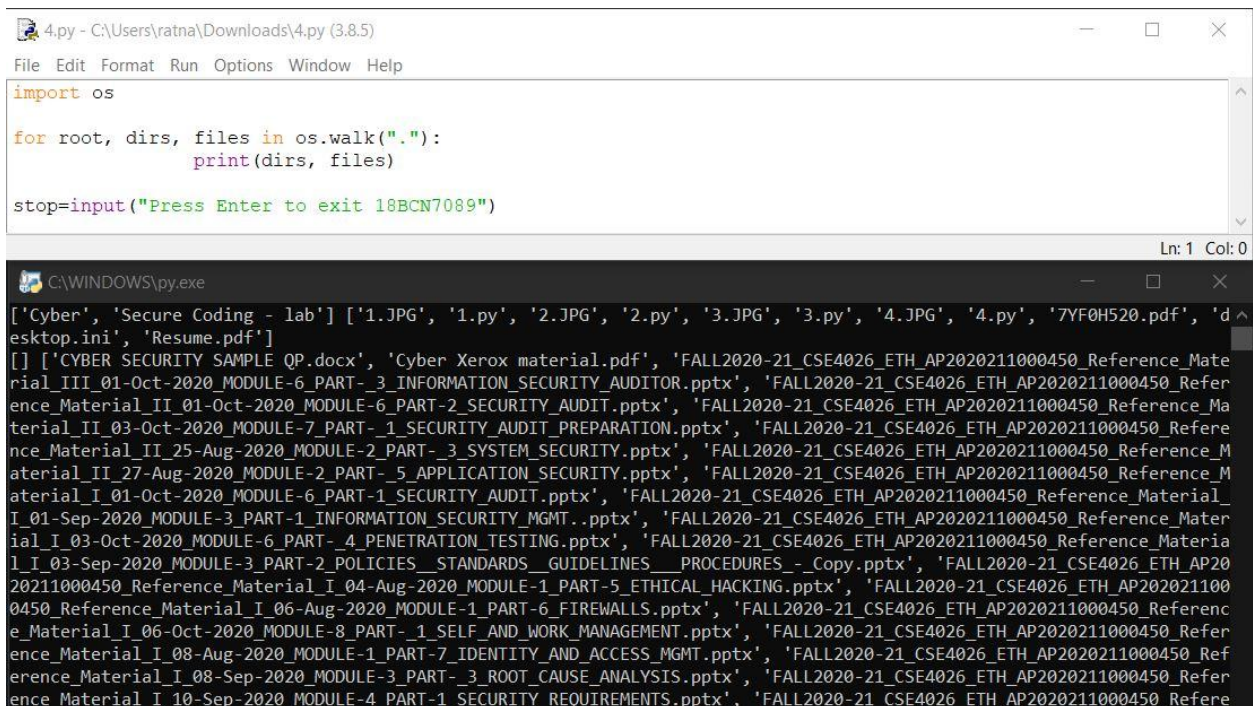
```
import os
for root, dirs, files in os.walk("."):
    for name in dirs:
        print(os.path.join(root, name))

stop=input("Press Enter to exit 18BCN7089")
```

The status bar at the bottom right indicates "Ln: 1 Col: 0". Below the editor is a console window titled "C:\WINDOWS\py.exe" showing the output of the script:

```
.\Cyber
.\Secure Coding - lab
Press Enter to exit 18BCN7089
```

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



The screenshot shows a Python IDE window titled "4.py - C:\Users\ratna\Downloads\4.py (3.8.5)". The menu bar includes File, Edit, Format, Run, Options, Window, and Help. The code in the editor is as follows:

```
import os

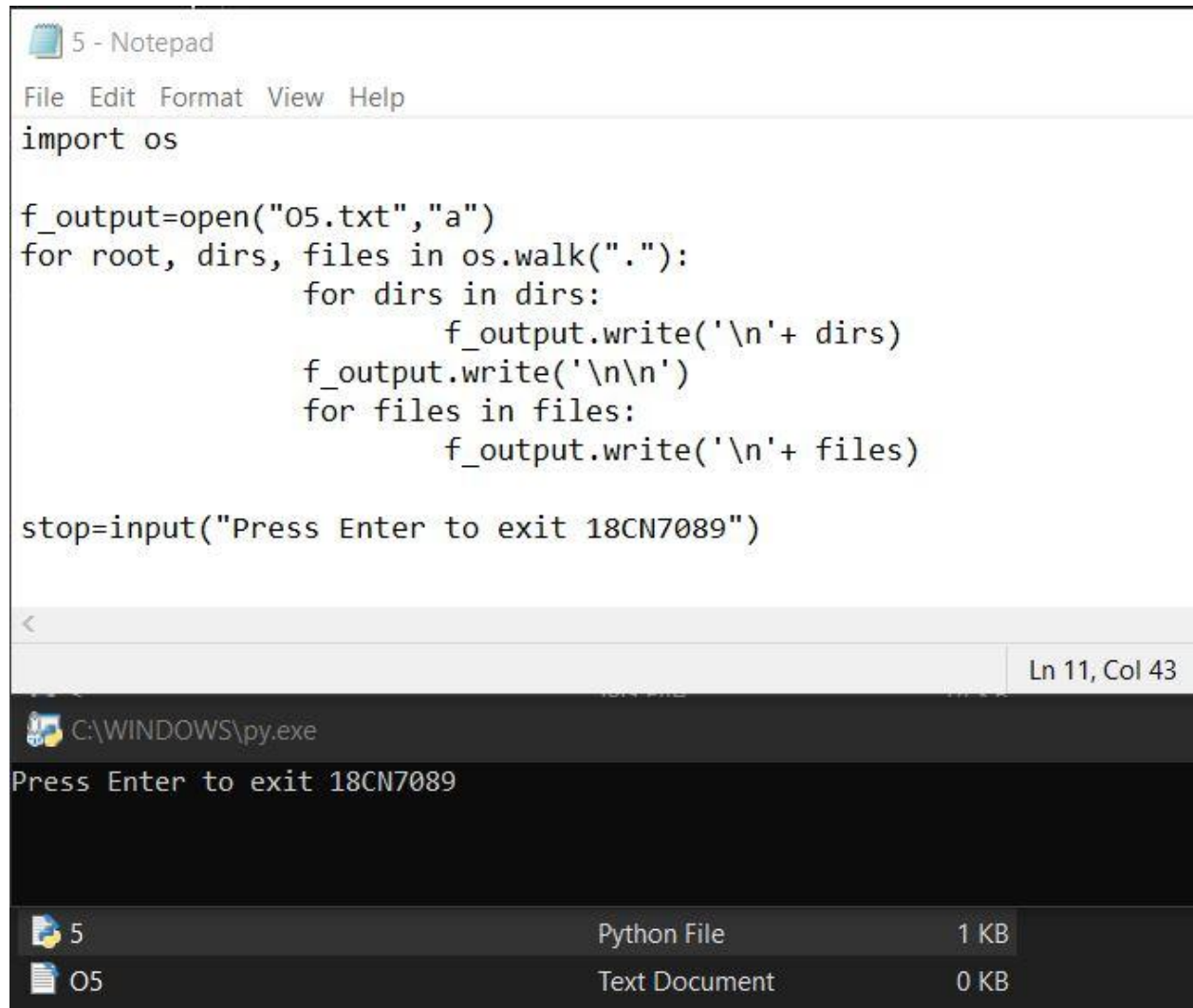
for root, dirs, files in os.walk("."):
    print(dirs, files)

stop=input("Press Enter to exit 18BCN7089")
```

The status bar at the bottom right indicates "Ln: 1 Col: 0". Below the editor is a console window titled "C:\WINDOWS\py.exe" showing the output of the script:

```
['Cyber', 'Secure Coding - lab'] ['1.JPG', '1.py', '2.JPG', '2.py', '3.JPG', '3.py', '4.JPG', '4.py', '7YF0H520.pdf', 'desktop.ini', 'Resume.pdf']
[] ['CYBER SECURITY SAMPLE QP.docx', 'Cyber Xerox material.pdf', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_III_01-Oct-2020_MODULE-6_PART-3_INFORMATION_SECURITY_AUDITOR.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_II_01-Oct-2020_MODULE-6_PART-2_SECURITY_AUDIT.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_II_03-Oct-2020_MODULE-7_PART-1_SECURITY_AUDIT_PREPARATION.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_II_25-Aug-2020_MODULE-2_PART-3_SYSTEM_SECURITY.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_II_27-Aug-2020_MODULE-2_PART-5_APPLICATION_SECURITY.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_01-Oct-2020_MODULE-6_PART-1_SECURITY_AUDIT.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_01-Sep-2020_MODULE-3_PART-1_INFORMATION_SECURITY_MGMT..pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_03-Oct-2020_MODULE-6_PART-4_PENETRATION_TESTING.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_03-Sep-2020_MODULE-3_PART-2_POLICIES_STANDARDS_GUIDELINES_PROCEDURES_-_Copy.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_04-Aug-2020_MODULE-1_PART-5_ETHICAL_HACKING.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_06-Aug-2020_MODULE-1_PART-6_FIREWALLS.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_06-Oct-2020_MODULE-8_PART-1_SELF_AND_WORK_MANAGEMENT.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_08-Aug-2020_MODULE-1_PART-7_IDENTITY_AND_ACCESS_MGMT.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_08-Sep-2020_MODULE-3_PART-3_ROOT_CAUSE_ANALYSIS.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Reference_Material_I_10-Sep-2020_MODULE-4_PART-1_SECURITY_REQUIREMENTS.pptx', 'FALL2020-21_CSE4026_ETH_AP2020211000450_Refere
```

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



The image shows a Windows desktop environment. At the top, a Notepad window titled "5 - Notepad" is open. It has a menu bar with "File", "Edit", "Format", "View", and "Help". The text area contains a Python script that uses the `os` module to recursively walk through the current directory, writing the names of directories and files to a file named "05.txt". The script includes a loop for directories and a nested loop for files. Below the script, there is a prompt for the user to press Enter to exit. The status bar at the bottom of the Notepad window shows "Ln 11, Col 43". Below the Notepad window, a Windows taskbar is visible. It shows the taskbar icon for the Notepad window, followed by a taskbar icon for a Python file named "5" (1 KB), and a taskbar icon for a text document named "05" (0 KB).

```
import os

f_output=open("05.txt","a")
for root, dirs, files in os.walk("."):
    for dirs in dirs:
        f_output.write('\n'+ dirs)
    f_output.write('\n\n')
    for files in files:
        f_output.write('\n'+ files)

stop=input("Press Enter to exit 18CN7089")
```

Ln 11, Col 43

C:\WINDOWS\py.exe

Press Enter to exit 18CN7089

5	Python File	1 KB
05	Text Document	0 KB

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





```
6.py - C:\Users\ratna\Downloads\6.py (3.8.5)
File Edit Format Run Options Window Help

import subprocess
process=subprocess.Popen(["powershell","New-Item 18BCN7089_0.txt,18BCN7089_1.txt,18BCN7089_2.txt,18BCN7089_3.txt"],stdout=subprocess.PIPE)
result=process.communicate()[0]
print(result)

stop=input("Press Enter to exit 18BCN7089")

Python 3.8.5 Shell
File Edit Shell Debug Options Window Help

Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ratna\Downloads\6.py =====
b''
Press Enter to exit 18BCN7089
===== RESTART: C:\Users\ratna\Downloads\6.py =====
b'r\n\r\n Directory: C:\Users\ratna\Downloads\r\n\r\n\r\nMode LastWriteTime Length Name \r\n-a--- 18-05-2021 01:04 0 18BCN7089_0.txt \r\n-a---
18-05-2021 01:04 0 18BCN7089_2.txt \r\n-a--- 18-05-2021 01:04 0 18BCN7089_3.txt \r\n\r\n\r\n'
Press Enter to exit 18BCN7089
```

	18BCN7089_0	Text Document	0 KB
	18BCN7089_1	Text Document	0 KB
	18BCN7089_2	Text Document	0 KB
	18BCN7089_3	Text Document	0 KB