



CSE-2010 Secure Coding Lab[Slot- L23-L24]

LAB - 6

Name :- Amritmoy Pain

Reg. No. :- 18BCE7344

Assignment

- Write a python script to get all the file names in the current directory
- Write a python script to get all the directory names in the current directory
- Write a python script to get all the directory and subdirectory names in the current directory
- Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory
- 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.
- Write a python script which creates four new files in the current directory using Powershell.

Question 1 code:

```
import glob  
path = 'C:\\Users\\Lenovo\\Downloads'
```

```
print(f)
```

Output:



Question 2 code:

```
import os
```

```
path = 'C:\\Users\\Lenovo\\Desktop'
```

```
folders=[]
```

```
os.listdir(path)
```

```
for root, dirnames, filenames in os.walk(path):
```

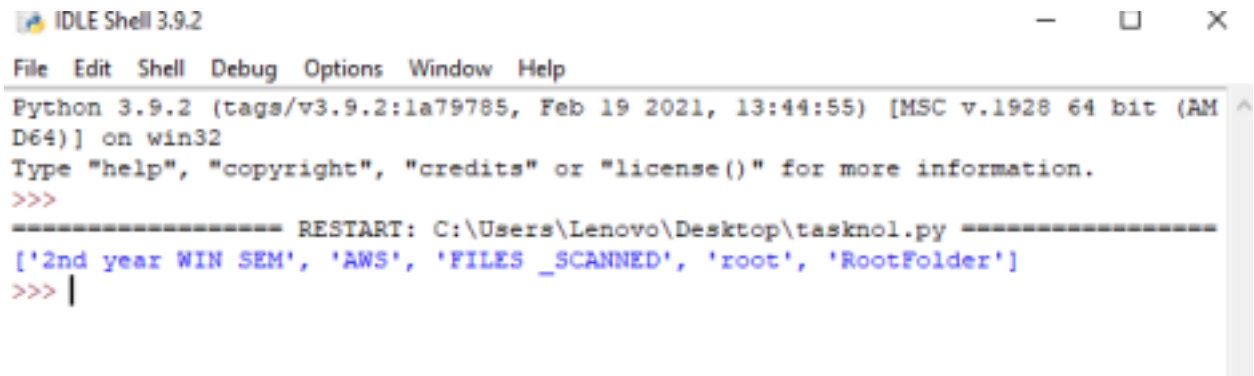
```
folders.append(dirnames)
```

```
break
```

```
for dirnames in folders:
```

```
    print(dirnames)
```

Output:



```
IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Lenovo\Desktop\tasknol.py =====
['2nd year WIN SEM', 'AWS', 'FILES_SCANNED', 'root', 'RootFolder']
>>> |
```

QUESTION 3 code:

```
import os
```

```
path =
```

```
'C:\\Users\\Lenovo\\Desktop'
```

```
folders = []
```

```
# r=root, d=directories, f = files
```

```
for r, d, f in os.walk(path):
```

```
    for folder in d:
```

```
folders.append(os.path.join(r, folder))
```

for f in folders:

```
print(f)
```

OUTPUT:



```
IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Lenovo/Desktop/task01.py =====
C:\Users\Lenovo\Desktop\2nd year WIN SEM
C:\Users\Lenovo\Desktop\ANS
C:\Users\Lenovo\Desktop\FILES _SCANNED
C:\Users\Lenovo\Desktop\root
C:\Users\Lenovo\Desktop\RootFolder
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Arch. and Org
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks-LAB
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Database Management Systems
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Database Management Systems-LAB
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Secure Coding
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Secure Coding-Lab
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Semiconductor devices
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Soft Computing
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies-LAB
C:\Users\Lenovo\Desktop\2nd year WIN SEM\I-ITS
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks\Module 1
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks\Module 2
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\CSS
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JAVASCRIPT
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS session 2
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others\attributes
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others\document
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others\DOM and CSS
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others\More events
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others\validation
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and others\More events\elements
C:\Users\Lenovo\Desktop\root\sub1
C:\Users\Lenovo\Desktop\root\sub1\sub2
C:\Users\Lenovo\Desktop\root\sub1\sub2\sub3
C:\Users\Lenovo\Desktop\RootFolder\subfolder1
C:\Users\Lenovo\Desktop\RootFolder\subfolder1\subfolder2
>>>
```

Question 4 code:

```
import os
```

```
import glob
```

```
path = 'c:\\Users\\Lenovo\\Documents'
```

```
print(" Displaying All the files : \n")
```

```
files = [f for f in glob.glob(path + "**/*.*", recursive=True)]
```

```
for f in files:

    print(f)

print("\n Displaying All the directories and sub directories :
\n") folders = []

for root, dirnames, f in os.walk(path):

    for folder in dirnames:

        folders.append(os.path.join(root,folder))

for f in folders:

    print(f)
```

OUTPUT:

```
IDLE Shell 3.9.2
File Edit Shell Debug Options Window Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Lenovo\Desktop\tasknoi.py =====
Displaying All the files :

c:\Users\Lenovo\Documents\desktop.ini
c:\Users\Lenovo\Documents\hello.java
c:\Users\Lenovo\Documents\Hello.py
c:\Users\Lenovo\Documents\Hello.spec

Displaying All the directories and sub directories :

c:\Users\Lenovo\Documents\build
c:\Users\Lenovo\Documents\Custom Office Templates
c:\Users\Lenovo\Documents\dist
c:\Users\Lenovo\Documents\My Music
c:\Users\Lenovo\Documents\My Pictures
c:\Users\Lenovo\Documents\My Videos
c:\Users\Lenovo\Documents\R
c:\Users\Lenovo\Documents\Secure Coding Lab4
c:\Users\Lenovo\Documents\Virtual Machines
c:\Users\Lenovo\Documents\Zoom
c:\Users\Lenovo\Documents\__pycache__
c:\Users\Lenovo\Documents\build\Hello
c:\Users\Lenovo\Documents\R\win-library
c:\Users\Lenovo\Documents\R\win-library\3.5
c:\Users\Lenovo\Documents\R\win-library\4.0
c:\Users\Lenovo\Documents\R\win-library\3.5\class
c:\Users\Lenovo\Documents\R\win-library\3.5\cluster
c:\Users\Lenovo\Documents\R\win-library\3.5\mclust
c:\Users\Lenovo\Documents\R\win-library\3.5\class\help
c:\Users\Lenovo\Documents\R\win-library\3.5\class\html
c:\Users\Lenovo\Documents\R\win-library\3.5\class\libs
c:\Users\Lenovo\Documents\R\win-library\3.5\class\Meta
c:\Users\Lenovo\Documents\R\win-library\3.5\class\po
c:\Users\Lenovo\Documents\R\win-library\3.5\class\R
c:\Users\Lenovo\Documents\R\win-library\3.5\class\libs\i386
c:\Users\Lenovo\Documents\R\win-library\3.5\class\libs\x64

Ln: 136 Col: 4
```

Question 5 code:

```
import os
```

```
import glob
```

```
path = 'c:'
```

```
fw = open("CurrentDrive.txt", "w")
```

```
fw.write("All the files : \n")
files = [f for f in glob.glob(path + "**/*.\"", recursive=True)]
for f in files:

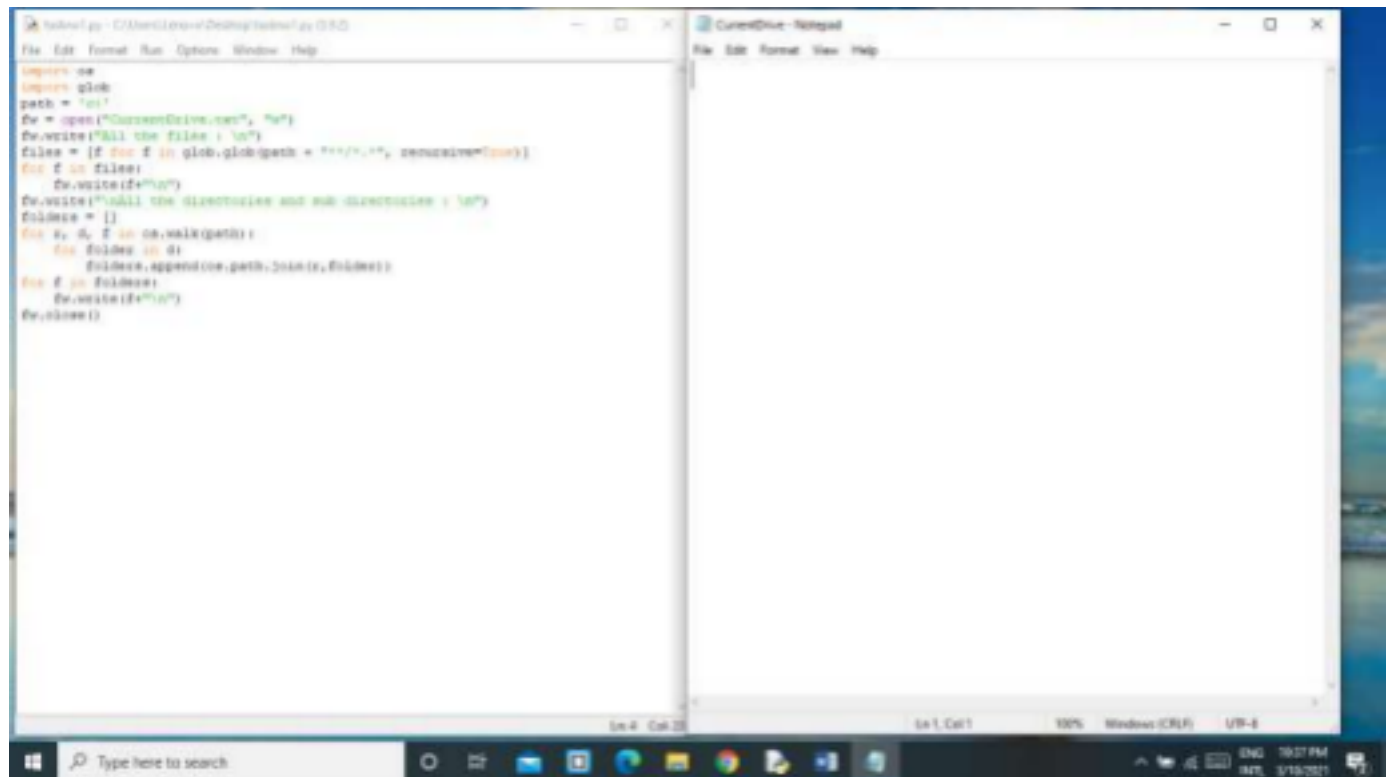
    fw.write(f+"\n")
fw.write("\nAll the directories and sub directories : \n")
folders = []

for root, dirnames, f in os.walk(path):
    for folder in dirnames:
        folders.append(os.path.join(root, folder))
for f in folders:

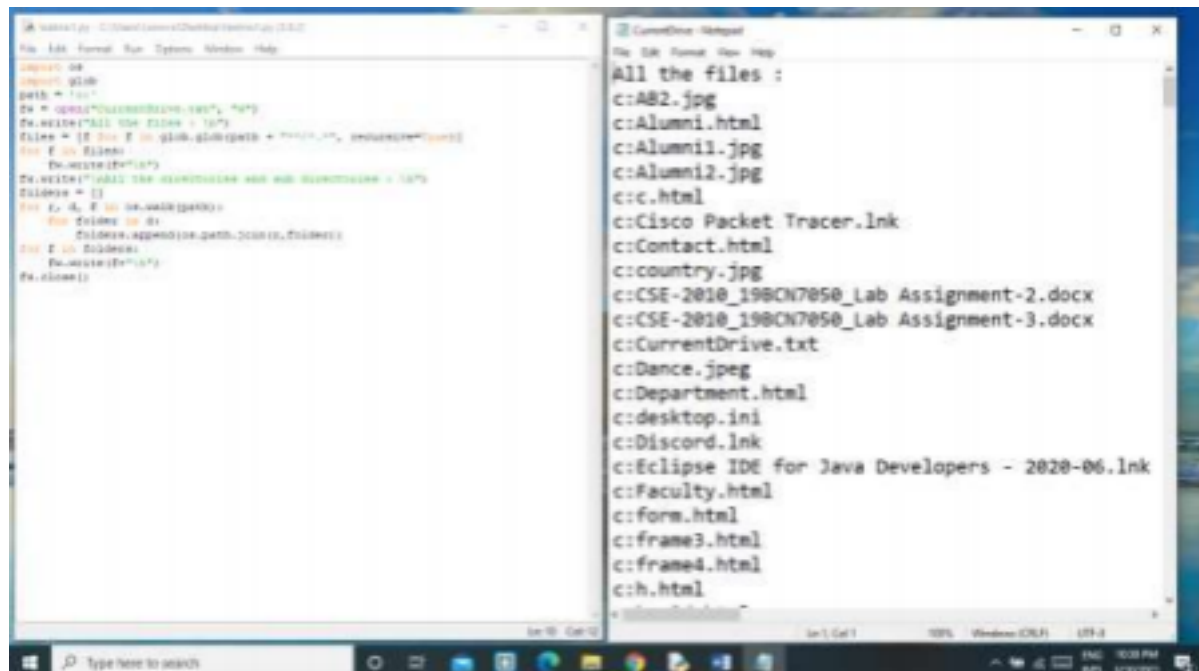
    fw.write(f+"\n")
fw.close()
```

Output:

Before Execution:



After execution:



Question 6:

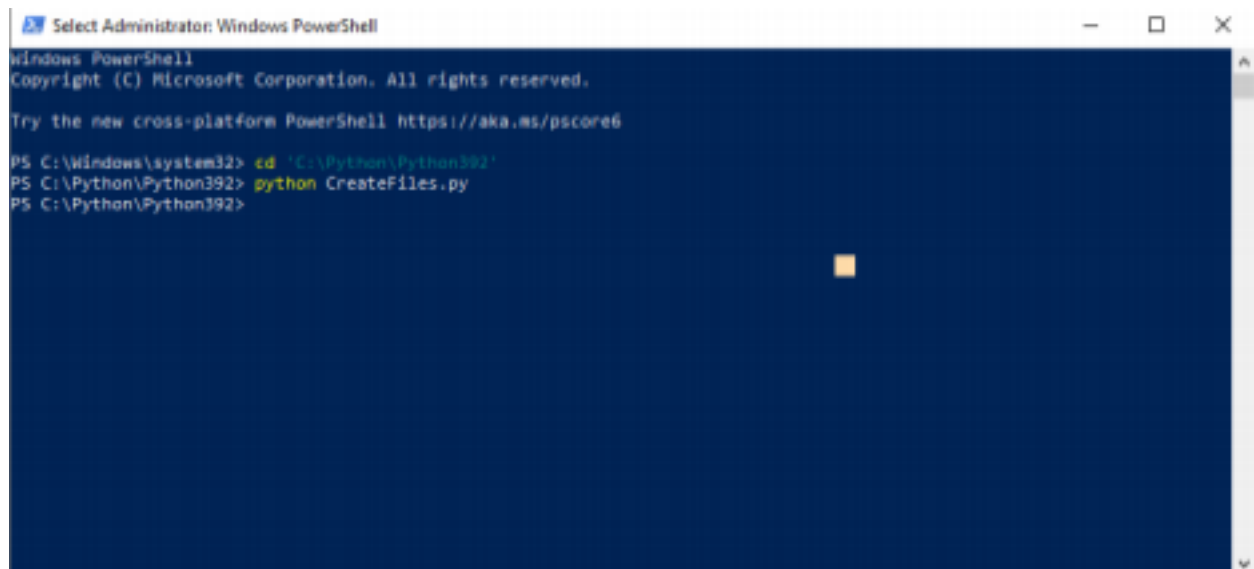
Python code:


```
list1 = ['a', 'b', 'c','d']
```

```
for i in range(len(list1)):
```

```
    open('file%s.txt' % i, 'w').write(list1[i])
```

Powershell execution:

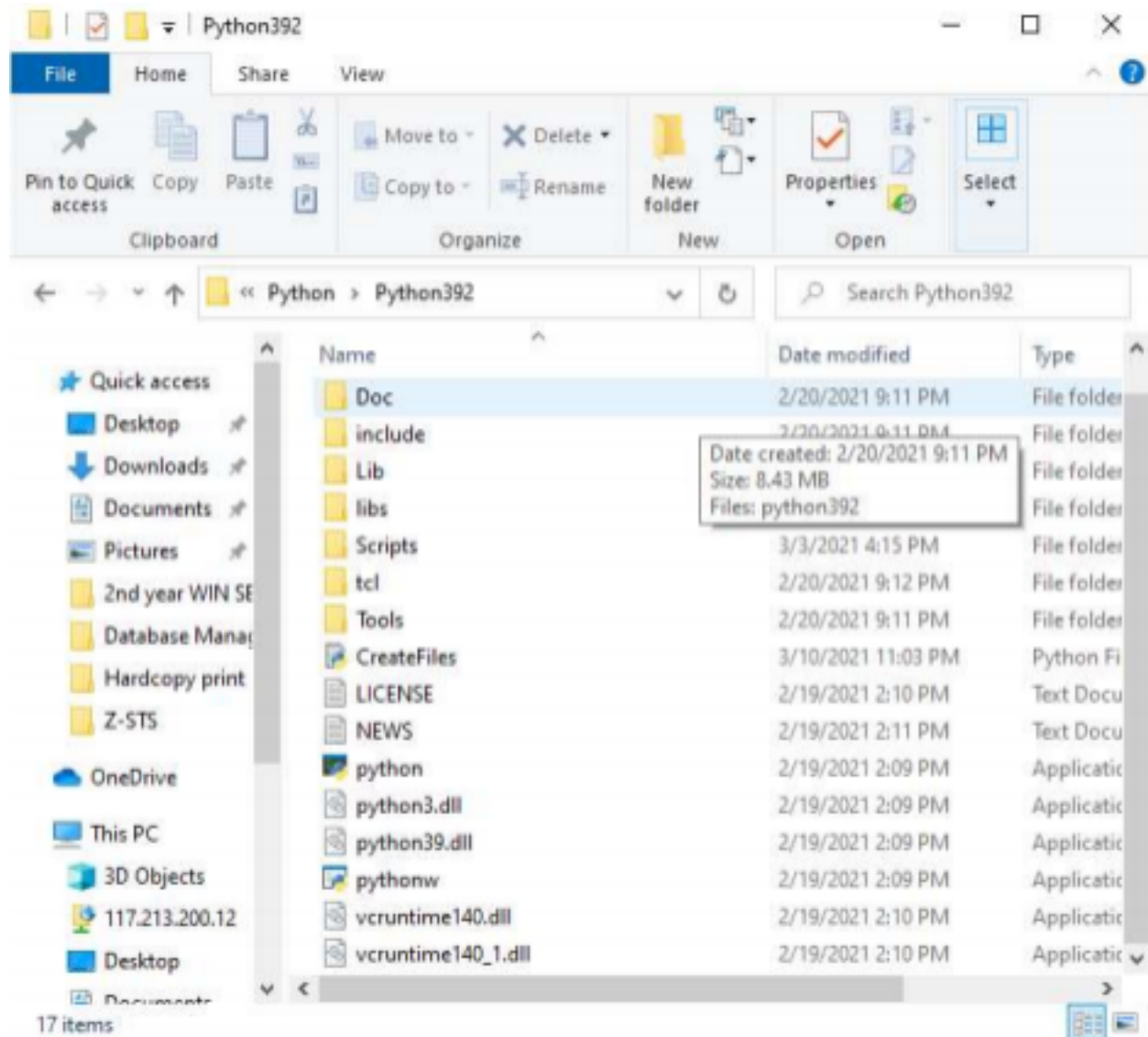
A screenshot of a Windows PowerShell window titled "Select Administrator: Windows PowerShell". The window has a dark blue background with white text. The text inside the window reads: "Windows PowerShell", "Copyright (C) Microsoft Corporation. All rights reserved.", "Try the new cross-platform PowerShell https://aka.ms/pscore6", "PS C:\Windows\system32> cd 'C:\Python\Python392'", "PS C:\Python\Python392> python CreateFiles.py", and "PS C:\Python\Python392>". A small yellow cursor is visible on the line "PS C:\Python\Python392>".

```
Select Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> cd 'C:\Python\Python392'
PS C:\Python\Python392> python CreateFiles.py
PS C:\Python\Python392>
```

Output Before Execution:



Output After Execution: