



LAB - 6

Name :- SRESTH MAHENDRA

Reg. No. :- 18BCE7039

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'
```

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

```
    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):
```

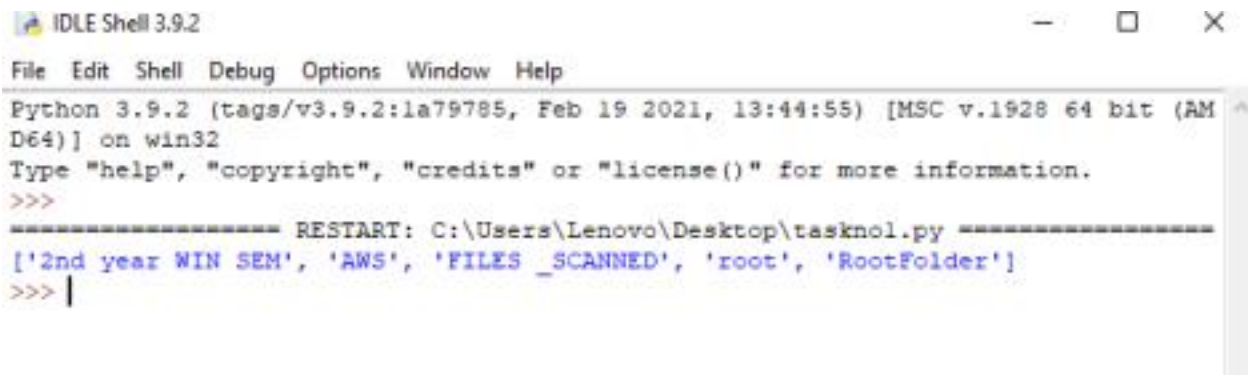
```
    folders.append(dirnames)
```

```
    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:

```
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1925 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
----- RESTART: C:/Users/Lenovo/Desktop/tasknoi.py -----
C:\Users\Lenovo\Desktop\1md year WIN SEM
C:\Users\Lenovo\Desktop\AWS
C:\Users\Lenovo\Desktop\FILES _SCANNED
C:\Users\Lenovo\Desktop\root
C:\Users\Lenovo\Desktop\RootFolder
C:\Users\Lenovo\Desktop\1md year WIN SEM\Computer Arch and Org
C:\Users\Lenovo\Desktop\1md year WIN SEM\Computer Networks
C:\Users\Lenovo\Desktop\1md year WIN SEM\Computer Networks-LAB
C:\Users\Lenovo\Desktop\1md year WIN SEM\Database Management Systems
C:\Users\Lenovo\Desktop\1md year WIN SEM\Database Management Systems-LAB
C:\Users\Lenovo\Desktop\1md year WIN SEM\Secure Coding
C:\Users\Lenovo\Desktop\1md year WIN SEM\Secure Coding-Lab
C:\Users\Lenovo\Desktop\1md year WIN SEM\Semiconductor devices
C:\Users\Lenovo\Desktop\1md year WIN SEM\Soft Computing
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies-Lab
C:\Users\Lenovo\Desktop\1md year WIN SEM\2-3TH
C:\Users\Lenovo\Desktop\1md year WIN SEM\Computer Networks\Module 1
C:\Users\Lenovo\Desktop\1md year WIN SEM\Computer Networks\Module 2
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\CSS
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JAVASCRIPT
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS DOM and others
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS session 1
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS DOM and others\attributes
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS DOM and others\document
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS DOM and others\DOM and CSS
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS DOM and others\More events
C:\Users\Lenovo\Desktop\1md year WIN SEM\Web Technologies\JS DOM and others\validation
C:\Users\Lenovo\Desktop\1md 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:

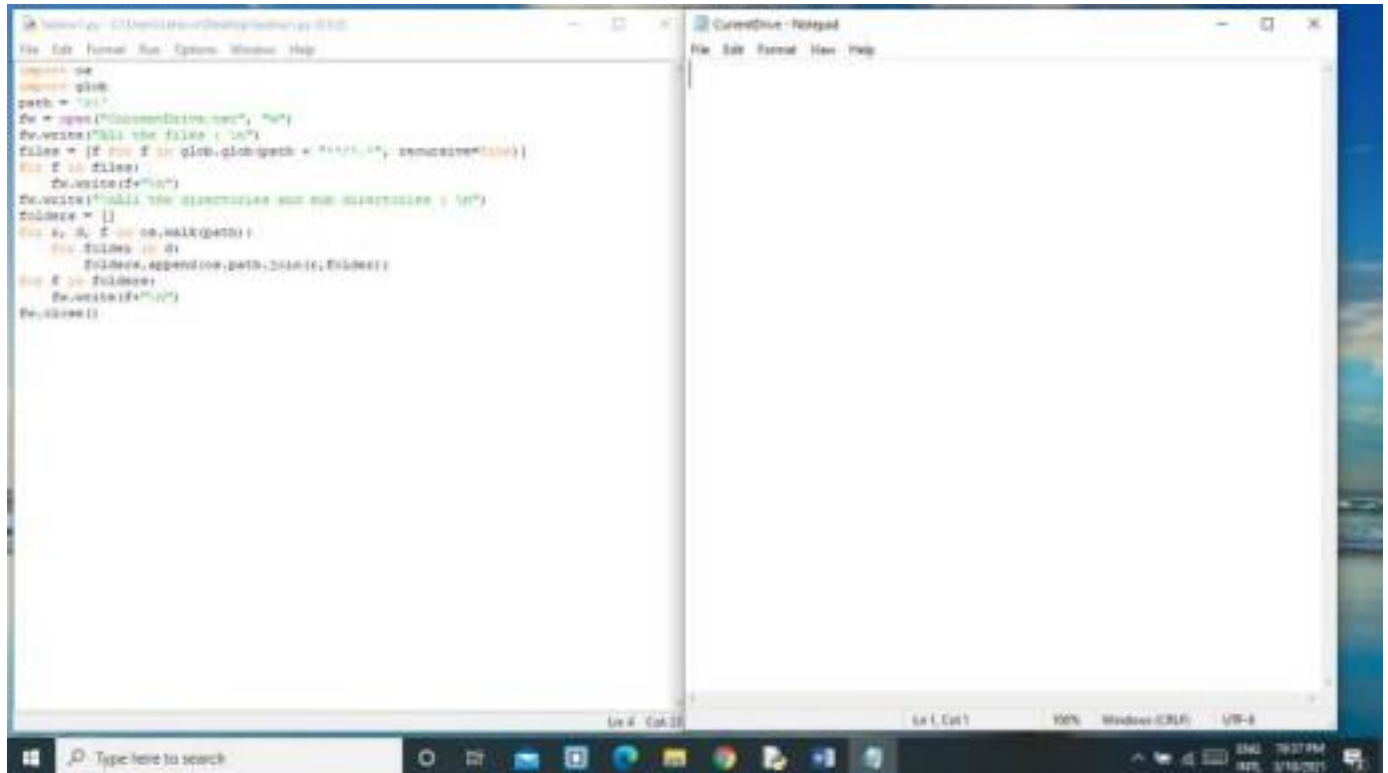
Question 5 code:

```
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")
```

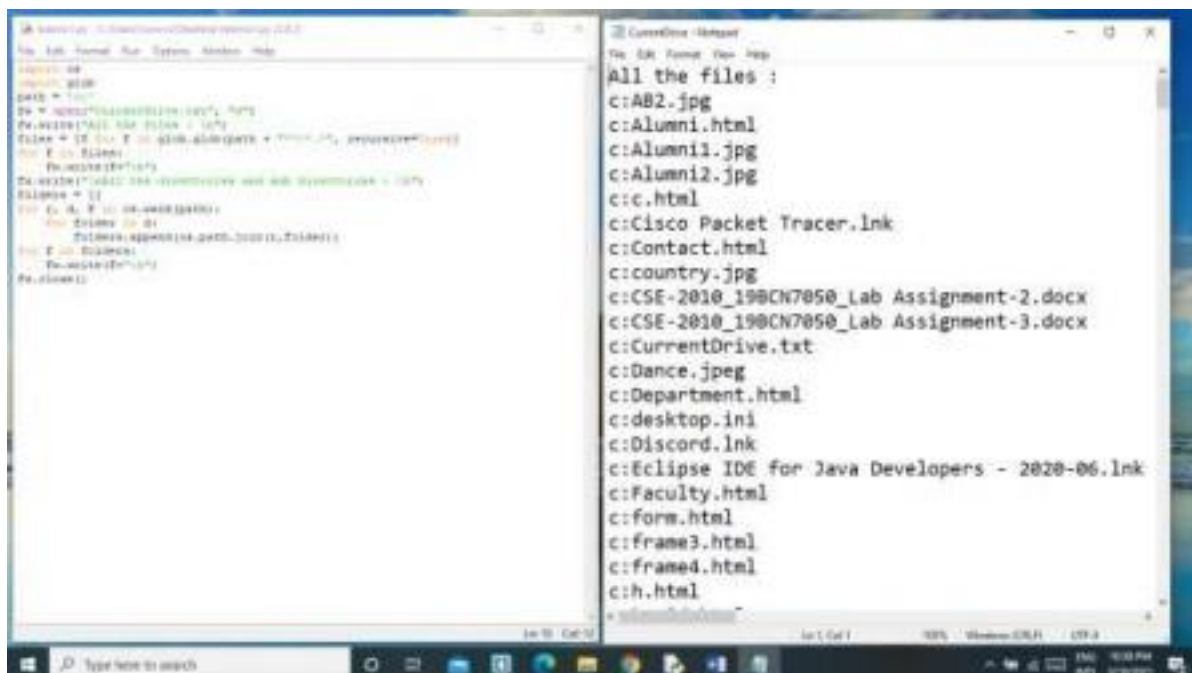
fw.close()

Output:

Before Execution:



After execution:



Question 6:

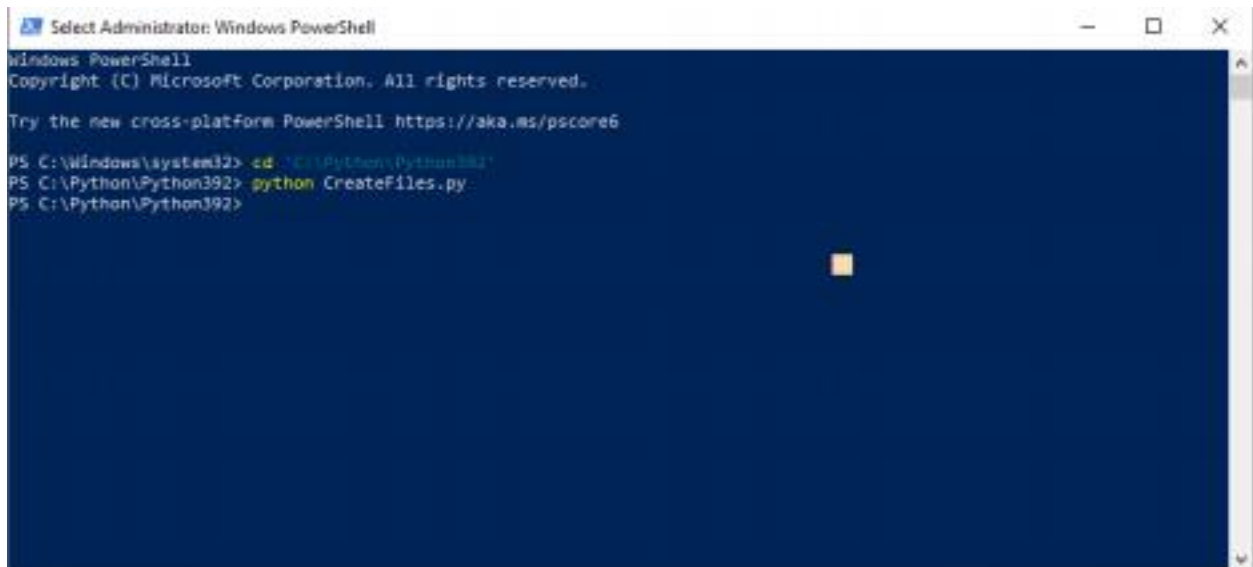
Python code:

```
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 terminal window. The title bar reads "Select Administrator: Windows PowerShell". The window has a dark blue background with white text. The text inside the window shows the PowerShell prompt and the execution of a Python script. The prompt is "PS C:\Windows\system32>". The first command is "cd 'C:\Python\Python392'", which is highlighted in green. The second command is "python CreateFiles.py", which is highlighted in yellow. The third command is "PS C:\Python\Python392>". There is a small yellow cursor icon on the line "PS C:\Python\Python392>".

```
Select Administrator: Windows PowerShell
Windows PowerShell
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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: