CSE 2010 SECURE CODING LAB SLOT –L23+L24 NAME-B.PRATYUSH REGISTRATION NUMBER-19BCN7114 LAB EXPERIMENT 6

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:

```
PLE Shell 3.9.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          O
          File Edit Shell Debug Options Window Help
        Python 3.9-3 (tags/v3.9.3:la79795, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit [AMD64]] on win33 Type "help", "copyright", "credits" or "license()" for more information.
| Procedure | Petip", "copyright", "credita" or "license()" for more information | Procedure | Petips 
                                                                                                                                                 --- RESTABT: C:/Users/Lenovo/Desktop/tasknol.py ---
```

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:
```

Output:

print(dirnames)

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 3:8:2
| 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 --
C:\Users\Lenovo\Desktop\2nd 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\2nd year WIN SEM\Computer Arch and Org
C:\Users\Lenovo\Desktop\Znd 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\Znd 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
Cr\Users\Lenovo\Desktop\Znd year WIN SEM\Web Technologies
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Web Technologies-LAb
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Z-STS
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks\Hodule 1
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks\Hodule 2
C:\Users\Lenovo\Desktop\Znd year WIN SEM\Web Technologies\C55
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:\Usera\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\J5 session 2
C:\Users\Lenovo\Desktop\Znd year WIN SEM\Web Technologies\J5 DOM and others\attributes
C:\Users\Lenovo\Desktop\2nd year WIN SEH\Web Technologies\JS DOM and others\document
C:\Usera\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and othera\DOM and CSS
C:\Usera\Lenovo\Desktop\2nd year WIN SEM\Web Technologies\JS DOM and othera\More events
C:\Users\Lenovo\Desktop\2nd year WIN SEN\Web Technologies\JS DOM and others\validation
Ci\Users\Lenovo\Desktop\Znd year WIN SEH\Web Technologies\JS DOM and others\Bore events\elements
C:\Users\Lendvo\Desktop\root\subl
C:\Users\Lenovo\Desktop\root\sub1\sub2
C:\Users\Lenovo\Desktop\root\sub1\sub2\sub3
Ci\Users\Lenovo\Desktop\RootFolder\subfolderl
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:

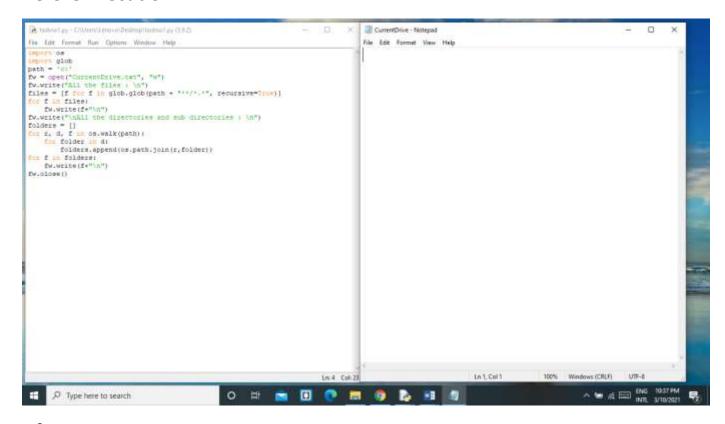
```
IDLE Shell 3.9.2
                                                                          Х
File Edit Shell Debug Options Window Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AM ^
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
======== RESTART: C:\Users\Lenovo\Desktop\tasknol.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:

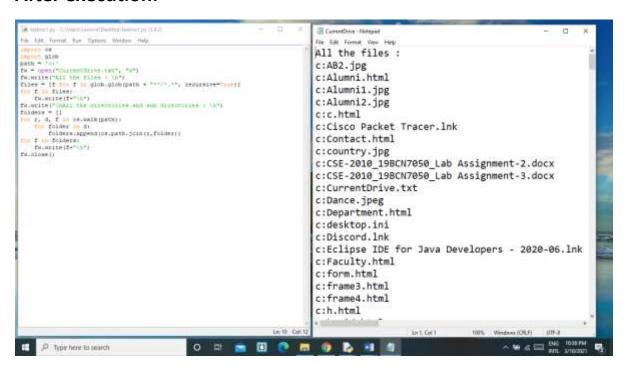
```
import os
import glob
path = 'c:'
fw = open("CurrentDrive.txt", "w")
fw.write("All the files : \n")
files = [f for f in glob.glob(path + "**/*.*", recursive=True)]
for f in files:
  fw.write(f+"\n")
fw.write("\nAll the directories and sub directories : \n")
folders = []
for root, dirnames, f in os.walk(path):
  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])
```

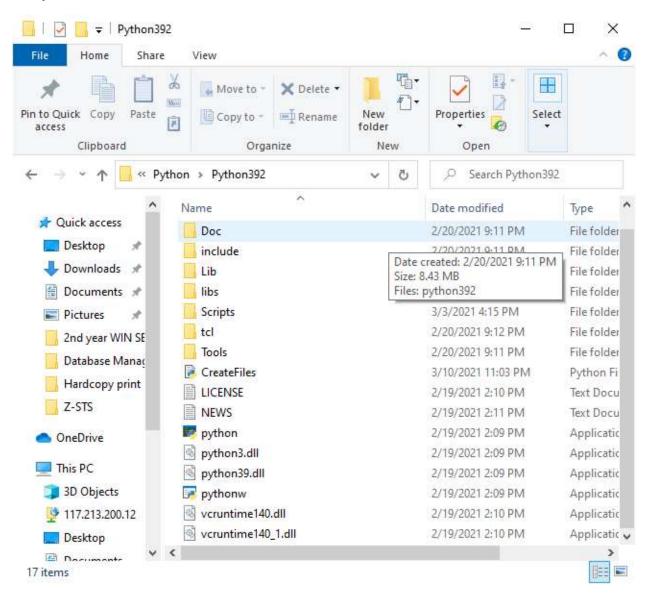
Powershell execution:

```
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:\Fython\Python392>
```

Output Before Execution:



Output After Execution:

