SECURE CODING LAB

SLOT –L(23+24)

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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:

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 ====================
C:\Users\Lenovo\Downloads\123454789.doc
C:\Users\Lenovo\Downloads\19BCD7243_NetworkFlow.pdf
C:\Users\Lenovo\Downloads\19BCD7244_LAB 12.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab1 OOP.docx.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab10 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab11 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab12 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab2 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab3 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab4 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab5 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab6 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab7 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab8 OOP.pdf
C:\Users\Lenovo\Downloads\19BCE7070_Lab9 OOP.pdf
C:\Users\Lenovo\Downloads\19BCI7044_Lab 0 (1).pdf
C:\Users\Lenovo\Downloads\19BCI7044_Lab 0.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001049_Experiment-10.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001049_Experiment-11.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001049_Experiment-12.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001049_Experiment-4.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001049_Experiment-8.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001049_Experiment-9.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-11.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-12.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-2.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-3.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-4.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-5.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001074_Experiment-8.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001087_Experiment-5.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001106_Experiment-1.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001106_Experiment-2.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001106_Experiment-3.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001106_Experiment-4.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001106_Experiment-5.pdf
C:\Users\Lenovo\Downloads\19BCN7114_AP2020211001106_Experiment-6.pdf
```

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Question 2 code:

```python
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)
```
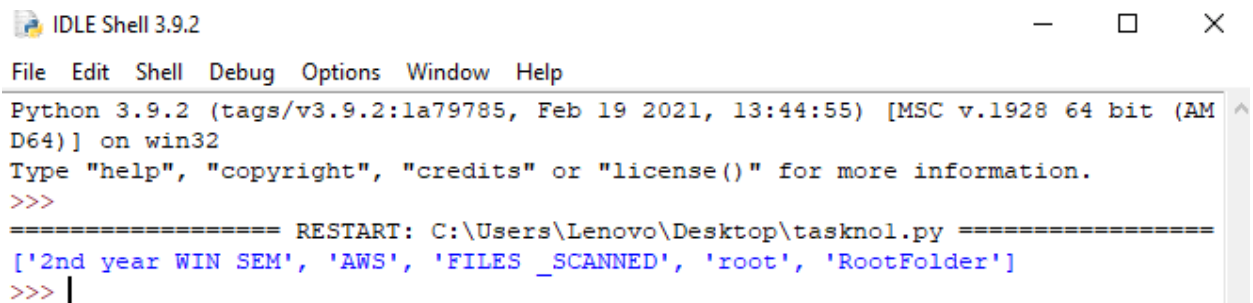
Output:

QUESTION 3 code:

```python
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/tasknoi.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\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\Z-STS
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 (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================== RESTART: C:\Users\Lenovo\Desktop\taskno1.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

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```
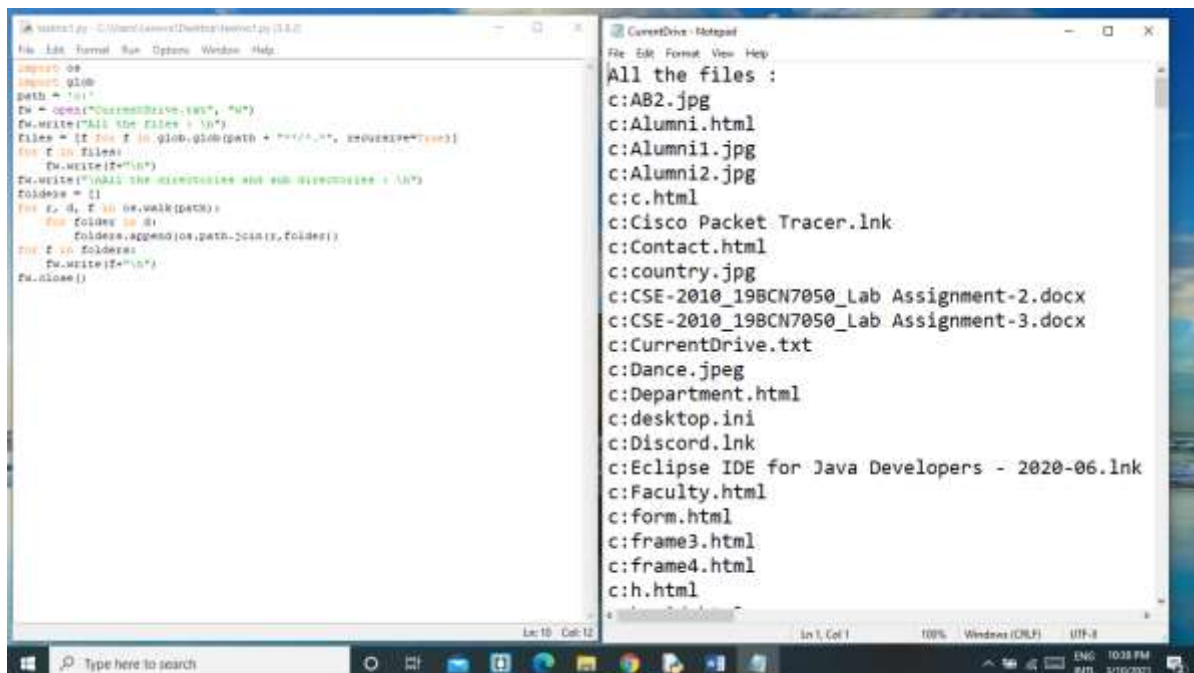
Question 5 code:

```python
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:
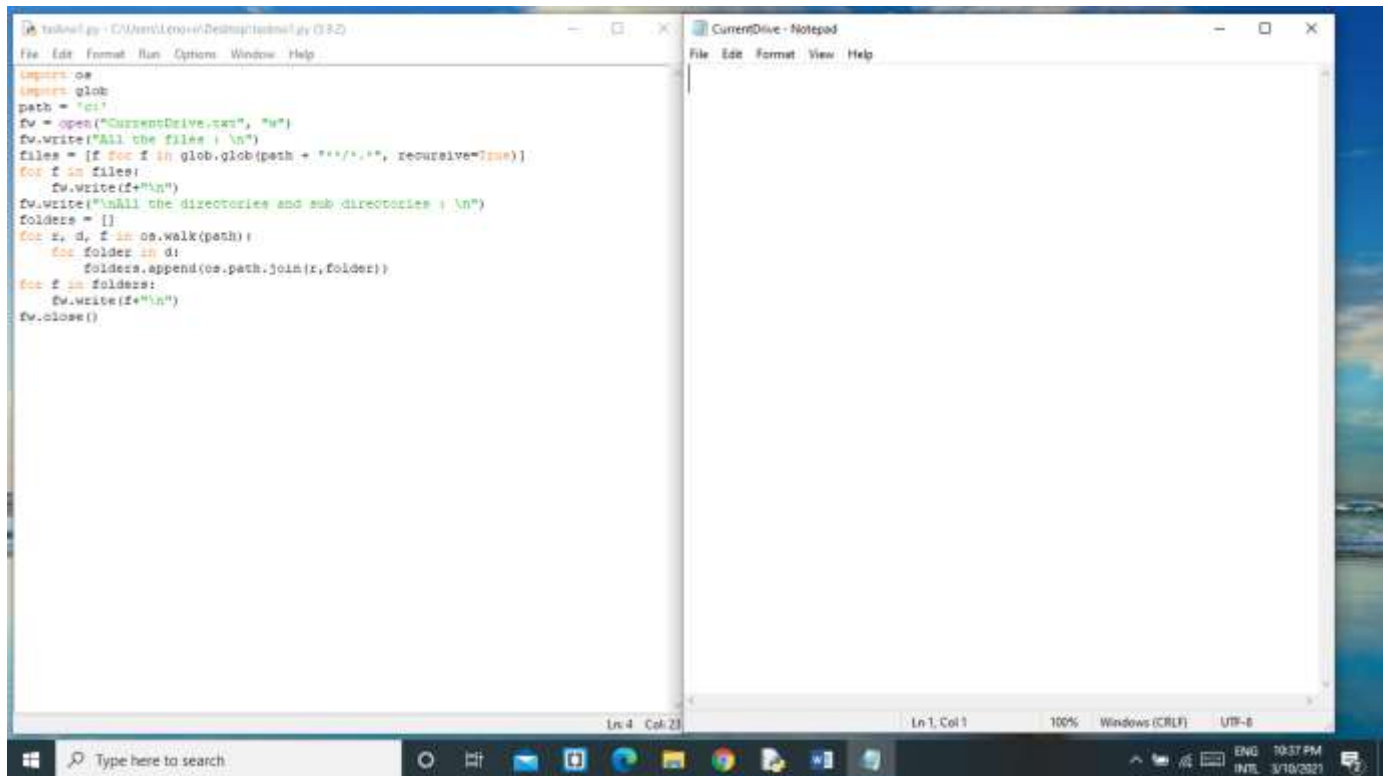
After execution:

Question 6:
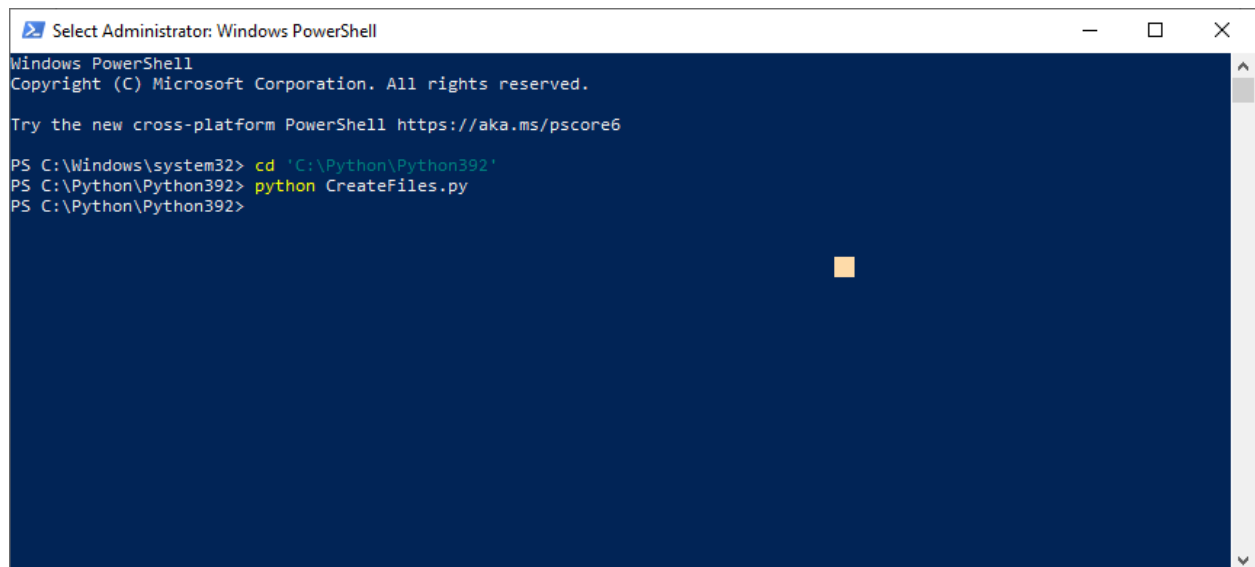
Python code:

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

for i in range(len(list1)):

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

Powershell execution:

Output Before Execution:

Output After Execution: