SECURE CODING_LAB_6_REPORT

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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:

```python
import glob


path = 'C:\\Users\\Lenovo\\Downloads'


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

```
for f in
 files:
print(f)
```
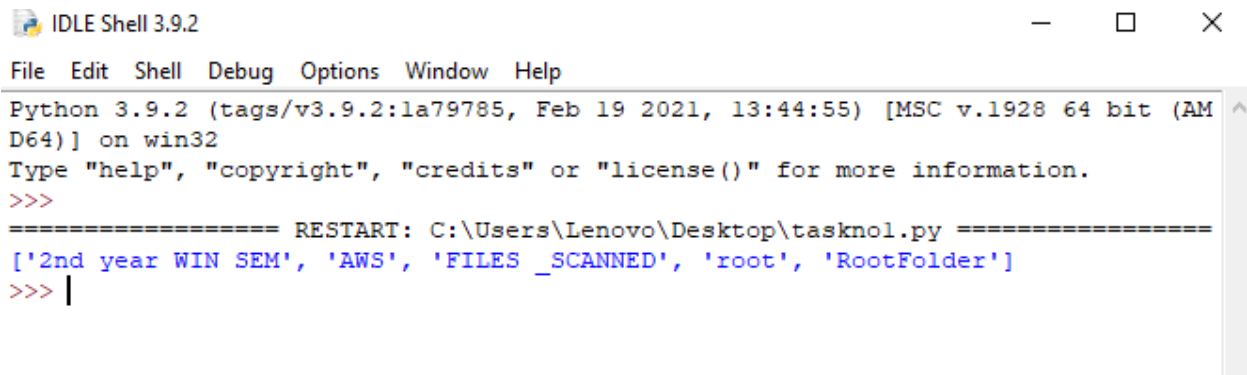
Question 2
code:

```
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 (AM
D64)] 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:

```
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/taskno1.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

```python
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)
```

OUTPU

```
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\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
```
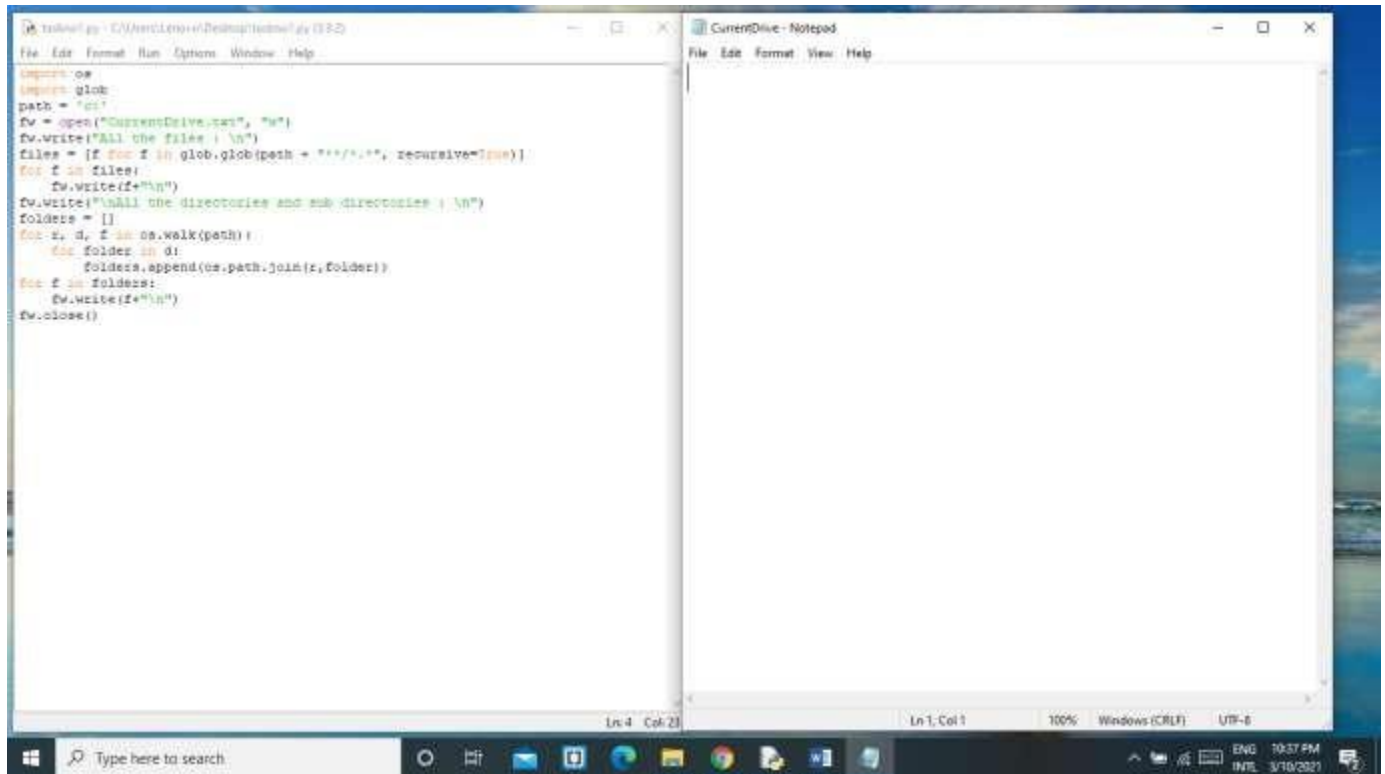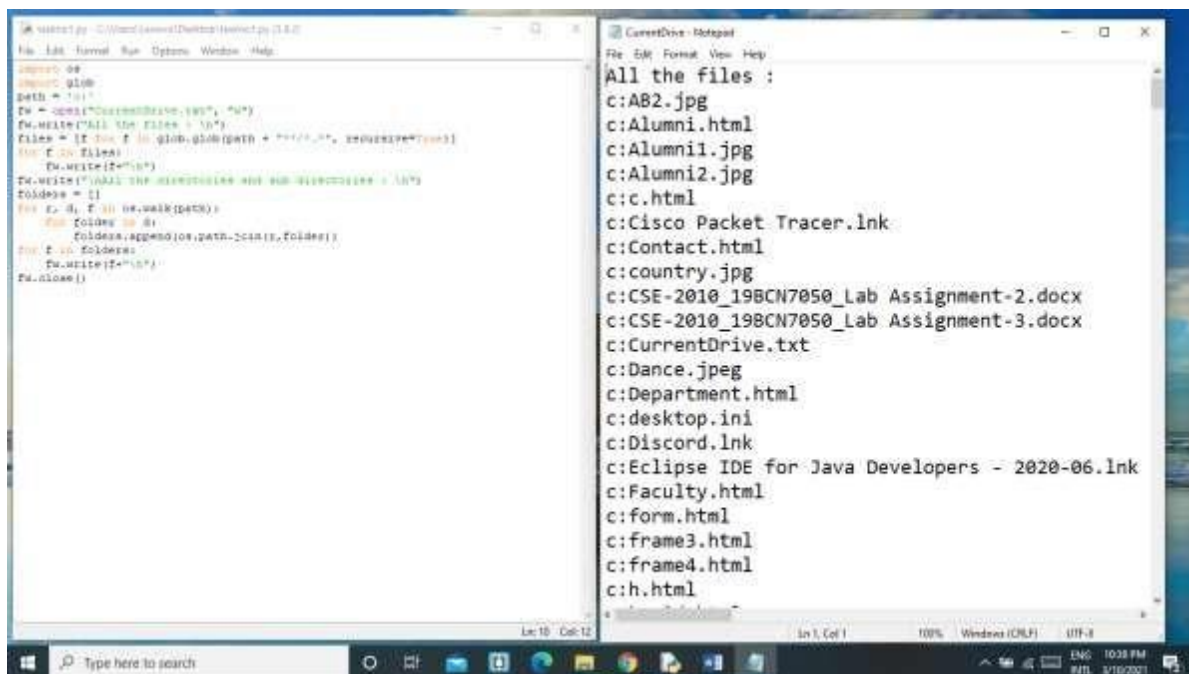
Question 5

```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()
```

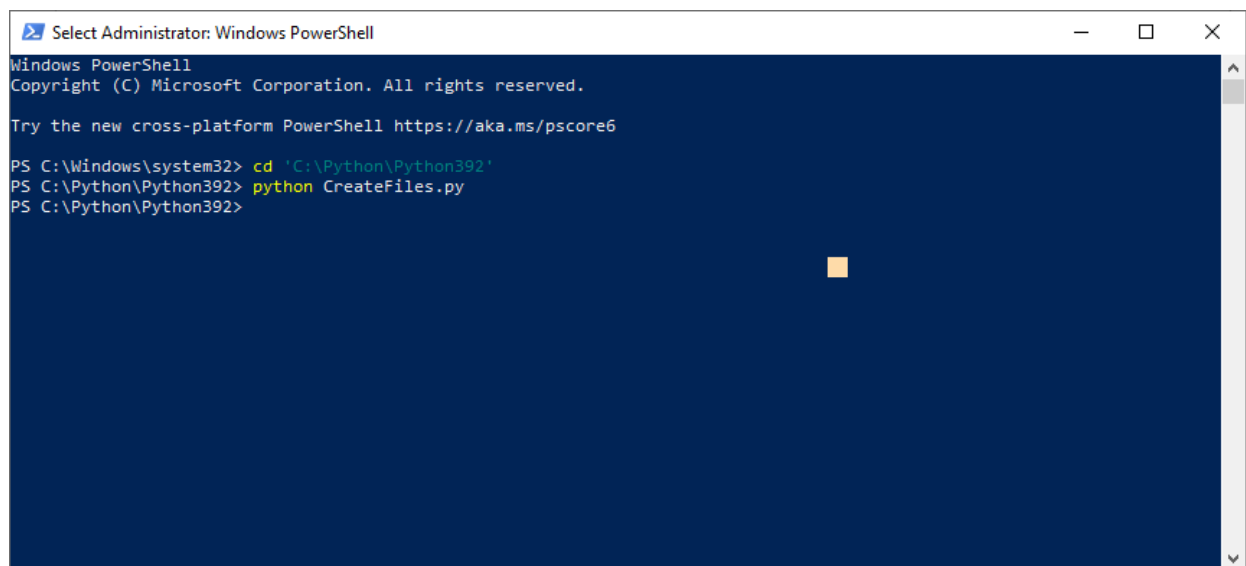# Output

Before Execution:

After execution:

Question

Python code:

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

for i in range(len(list1)):
    open('file%s.txt' % i,
    'w').write(list1[i])
```

Powershell execution:
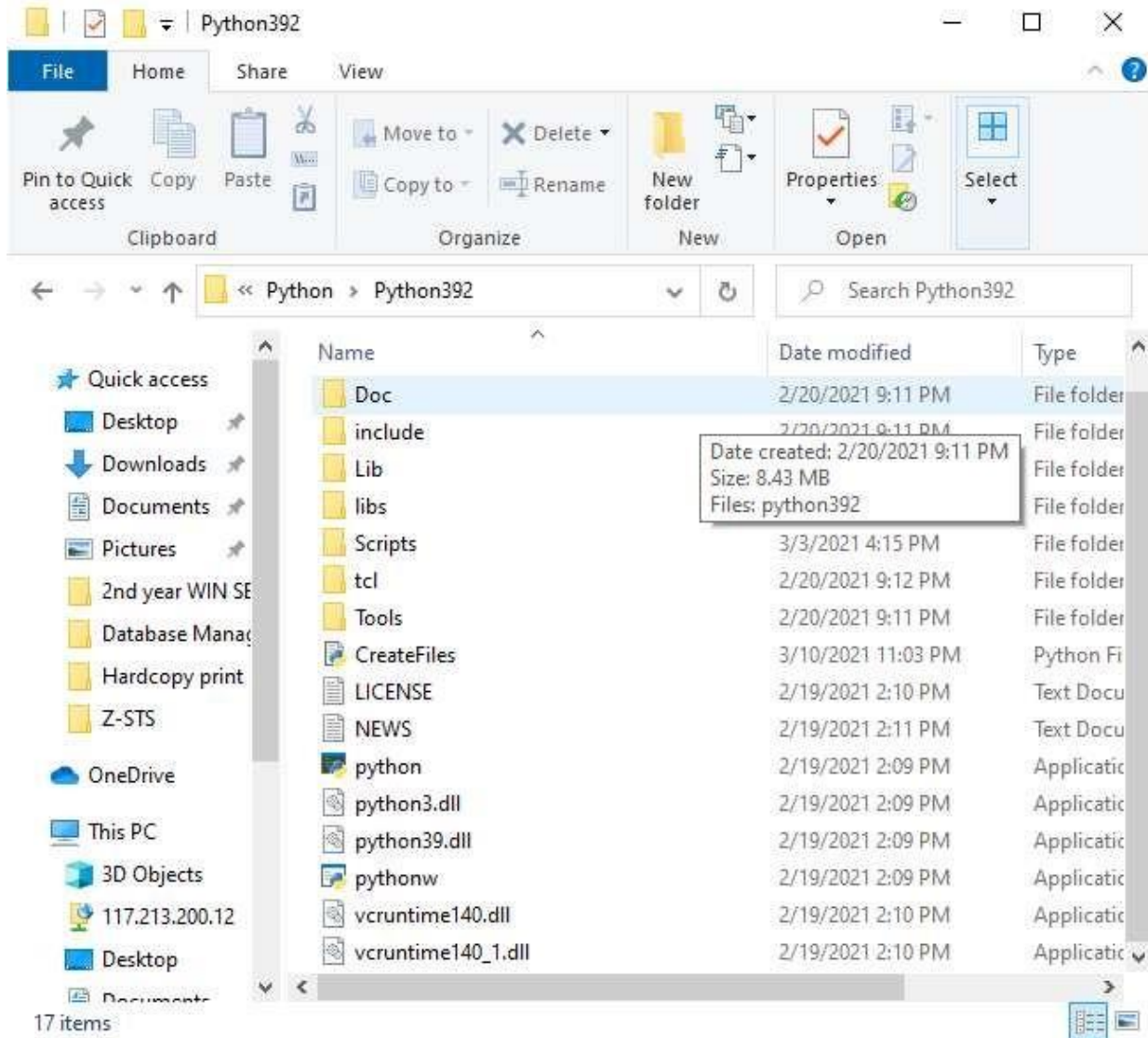
```
Select Administrator: Windows PowerShell                                    —   □   ×
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

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

Output Before

Output After