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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:

```
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

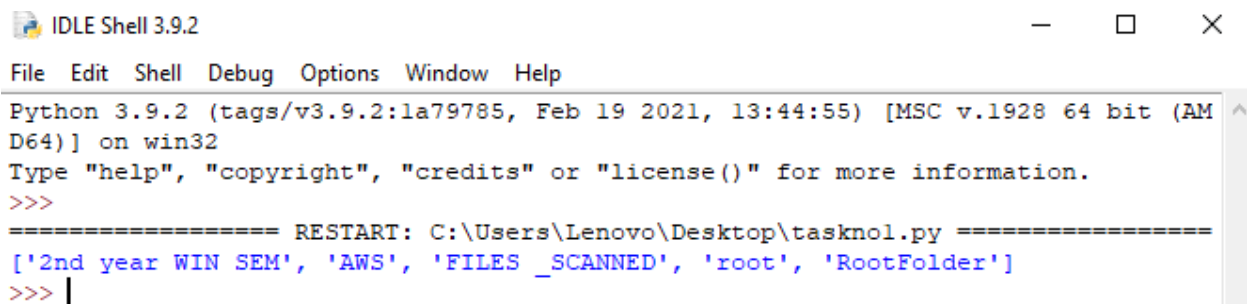
code:

```
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:

A screenshot of the IDLE Shell 3.9.2 window. The window title is "IDLE Shell 3.9.2" and it has standard Windows window controls (minimize, maximize, close). The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The shell text shows the Python version and environment: "Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32". It also displays the prompt "Type 'help', 'copyright', 'credits' or 'license()' for more information." followed by the execution of the code. The output is displayed in blue text: "==== RESTART: C:\\Users\\Lenovo\\Desktop\\tasknol.py =====", "[ '2nd year WIN SEM', 'AWS', 'FILES\_SCANNED', 'root', 'RootFolder' ]", and a final prompt "====".

```
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:

```
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

```
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,folde
r)) 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\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
```

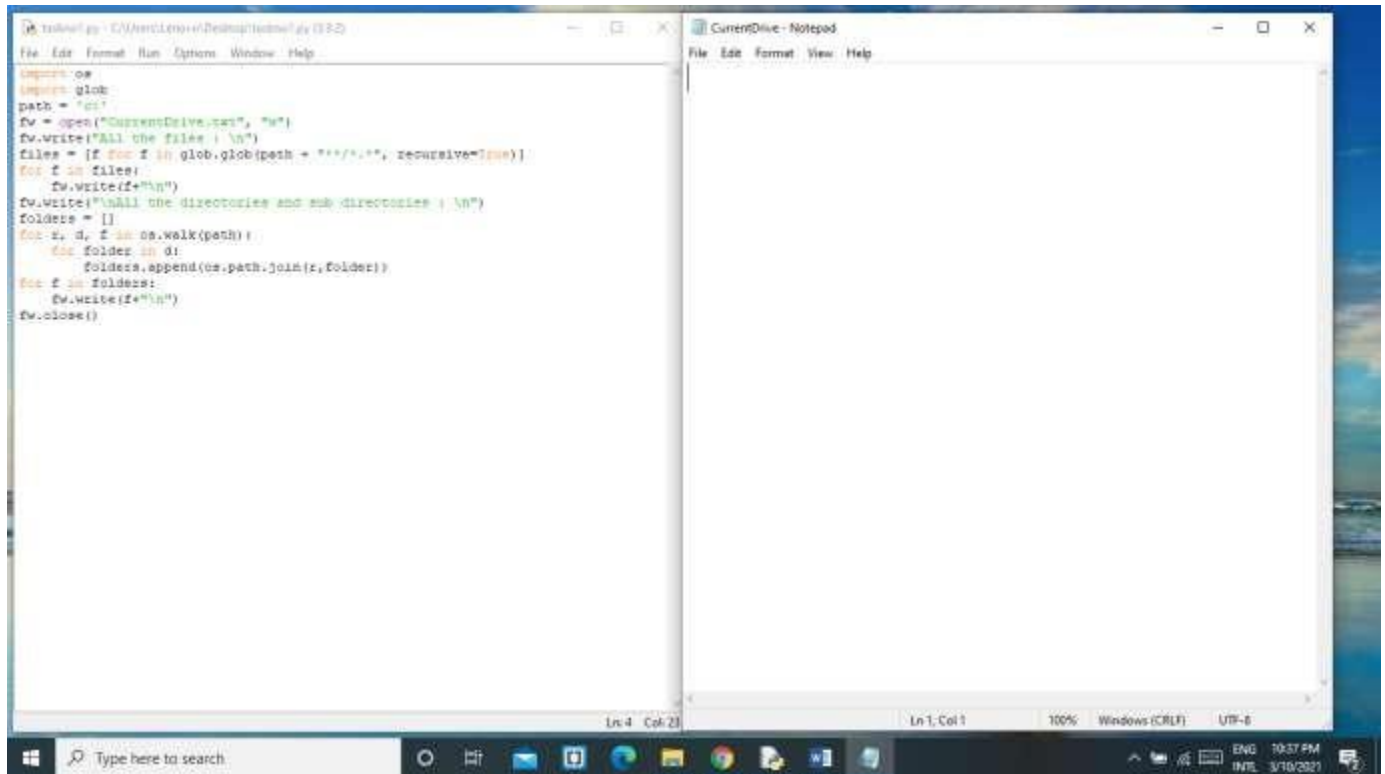
## Question 5

```
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,folde
r)) for f in folders:
            fw.write(f+"\n")
fw.close()
```

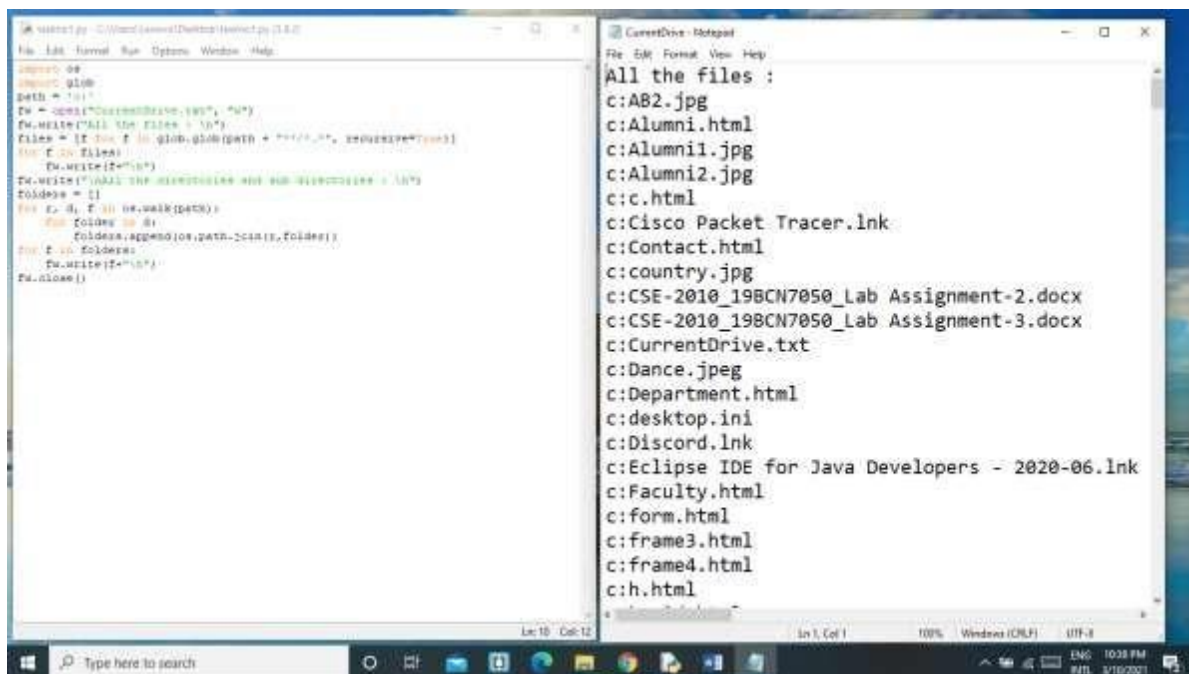


## Output

### Before Execution:



### After execution:



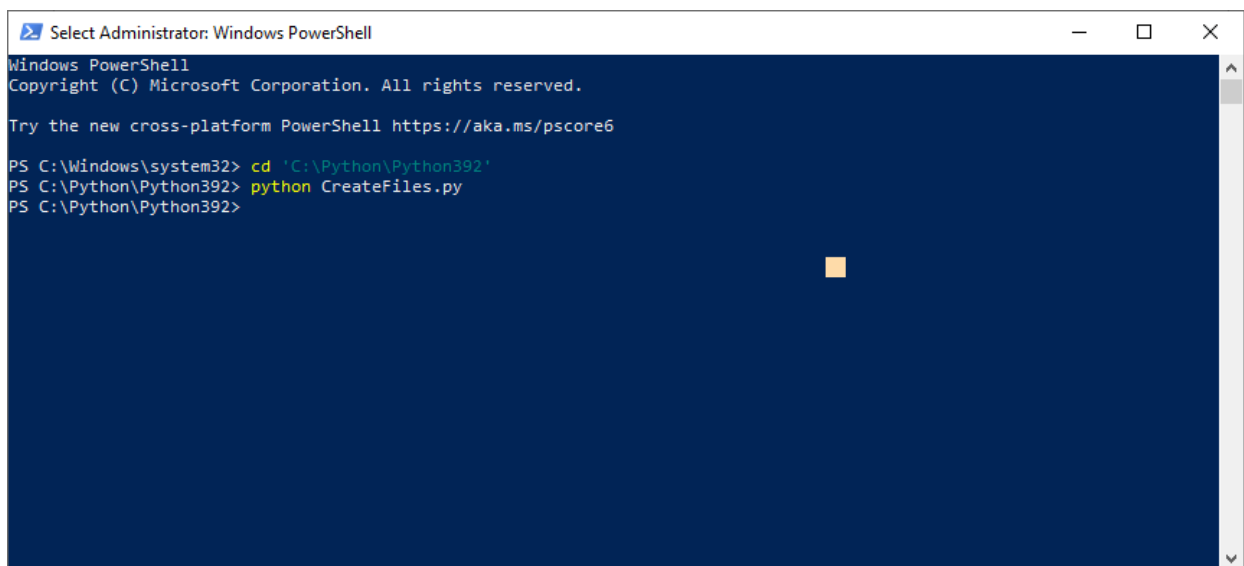
## Question

### Python code:

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

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

### Powershell execution:

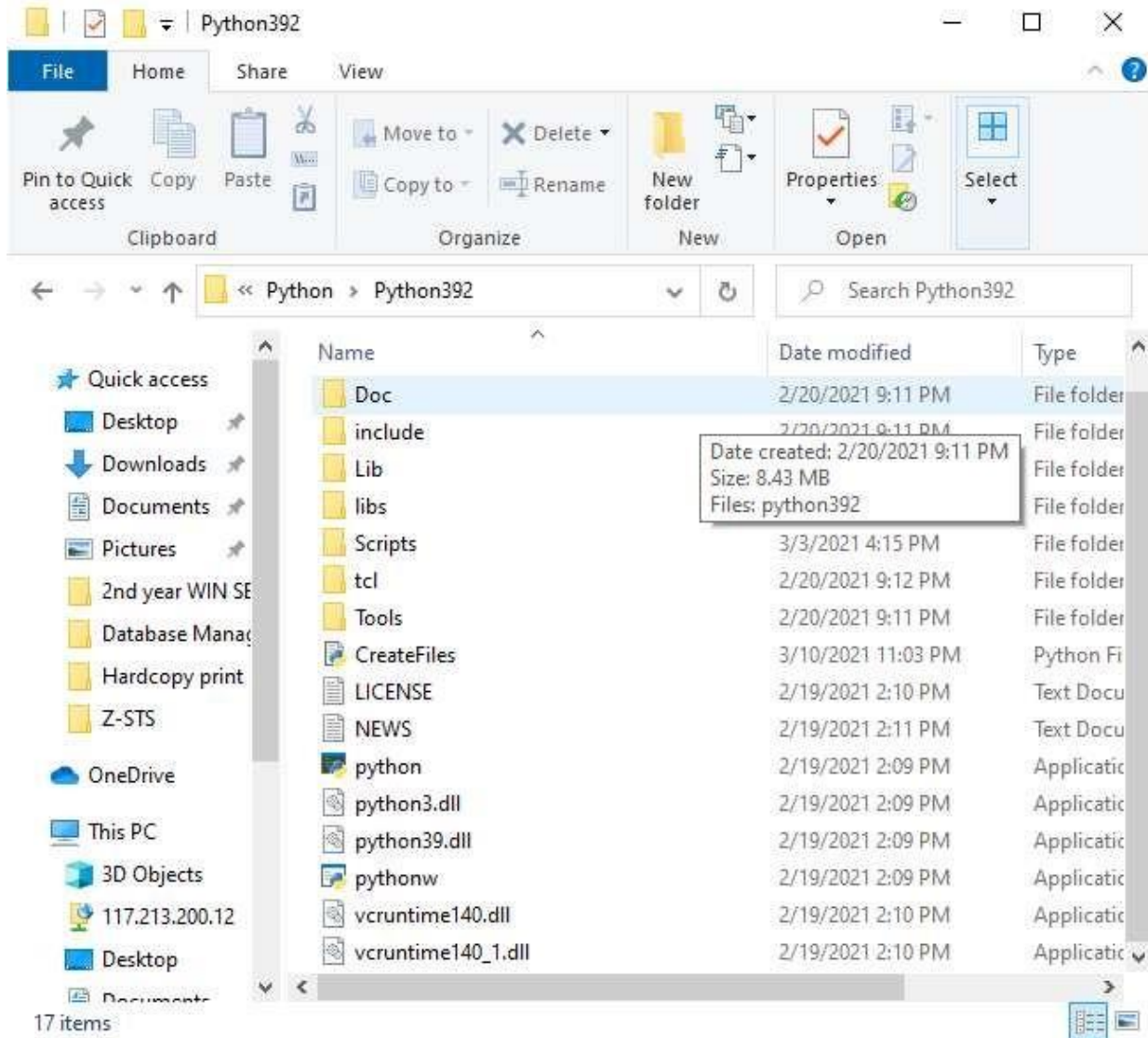
A screenshot of a Windows PowerShell window titled "Select Administrator: Windows PowerShell". The window has a dark blue background with white text. The text shows the PowerShell prompt and the execution of a Python script. The prompt is "PS C:\Windows\system32>". The first command is "cd 'C:\Python\Python392'", which changes the directory to "C:\Python\Python392". The second command is "python CreateFiles.py", which runs the Python script. The prompt then returns to "PS C:\Python\Python392>". There is a small orange cursor icon on the line following the second command.

```
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

