

CSE-2010 Secure Coding Lab[Slot- L23-L24]

LAB - 6

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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)
```

Output:

```
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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:

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:

```
A 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) [HSC v.1928 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
                  -- RESTART: C:/Users/Lenovo/Desktop/tesknol.py ---
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C:\Users\Lenovo\Desktop\FILES SCANNED
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C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Networks-LAB
C:\Users\Lenovo\Desktop\Ind year WIN SEN\Database Hanagement Systems
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C:\Users\Lenovo\Desktop\Ind year WIN SEN\Secure Coding-Lab
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C:\Users\Lenovo\Desktop\2nd year WIN SEM\Soft Computing
Cr\Users\Lenovo\Desktop\2nd year WIN SEH\Web Technologies
C:\Users\Lenovo\Desktop\2nd year WIN SEN\Web Technologies-Lab
C:\Users\Lenovo\Desktop\2nd year WIN SEH\Z-STS
C:\Users\Lenovo\Desktop\Ind year WIN SEN\Computer Networks\Nodule 1
C:\Users\Lenovo\Desktop\2nd year WIN SEM\Computer Metworks\Module 2
C:\Users\Lenovo\Desktop\Ind year WIN SEN\Web Technologies\CSS
C:\\Secs\Lenovo\Desktop\Ind year WIN SEN\Web Technologies\\AVASCRIFT C:\\Secs\Lenovo\Desktop\Ind year WIN SEN\Web Technologies\JS DOM and others
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Ci\Users\Lenovo\Desktop\Ind year WIN SEH\Web Technologies\J3 DCH and others\Bore events\elements
C:\Vsers\Lenovo\Desktop\root\subl
C:\Users\Lenovo\Desktop\root\sub1\sub2
C:\Users\Lenovo\Desktop\root\sub1\sub3\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
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File Edit Shell Debug Options Window Help
Python 3.9.2 (tags/v3.9.2:la79785, 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
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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:

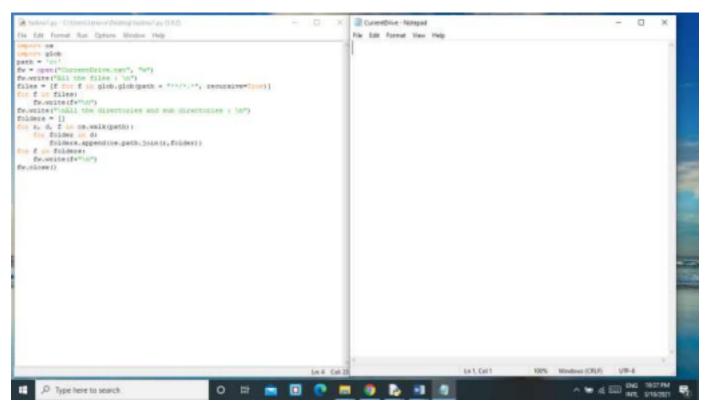
import os

import glob

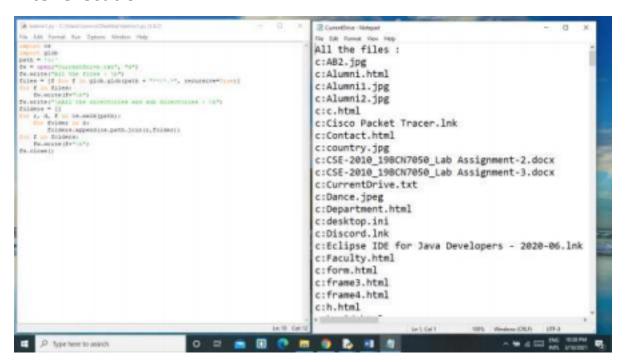
path = 'c:'

```
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:

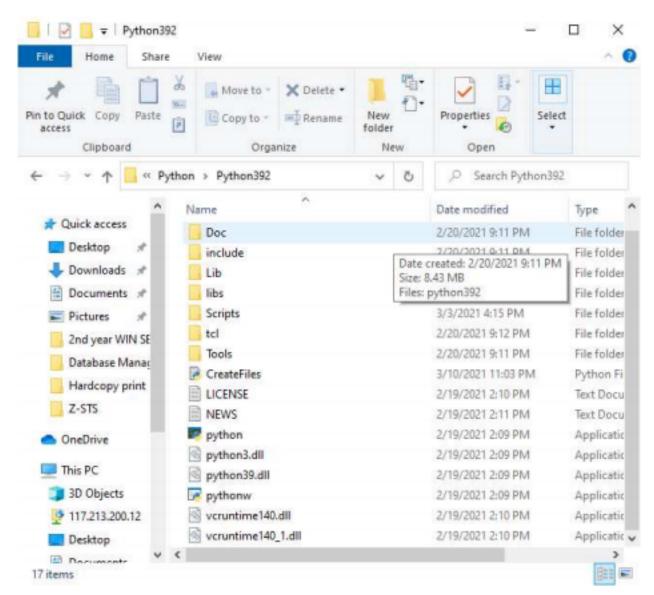
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> cd 'C:\Python\Python302'
PS C:\Python\Python392> python CreateFiles.py

PS C:\Python\Python392>
```

Output Before Execution:



Output After Execution:

