

Secure Coding CSE-2010

Lab Assignment-6

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(Q) Write a python script to get all the file names in the current directory.

Filename.py

```
import glob
```

```
path = 'c:\\Users\\NISHIT VERMA\\Downloads'
```

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

```
for f in files:
```

```
    print(f)
```

Output

```
===== RESTART: C:\Users\NISHIT VERMA\Desktop\Filename.py =====
c:\Users\NISHIT VERMA\Downloads\hw.spec
c:\Users\NISHIT VERMA\Downloads\12th marksheet.pdf
c:\Users\NISHIT VERMA\Downloads\19BCN7050.zip
c:\Users\NISHIT VERMA\Downloads\19BCN7050.zip
c:\Users\NISHIT VERMA\Downloads\2019065233.pdf
c:\Users\NISHIT VERMA\Downloads\7z1900-x64.exe
c:\Users\NISHIT VERMA\Downloads\7z1900-x64.msi
c:\Users\NISHIT VERMA\Downloads\ASS_1.pdf
c:\Users\NISHIT VERMA\Downloads\ass_4.docx
c:\Users\NISHIT VERMA\Downloads\blank.java
c:\Users\NISHIT VERMA\Downloads\c++basics.pptx
c:\Users\NISHIT VERMA\Downloads\Coded inequalities and Quadratic equations (Basic).pptx
c:\Users\NISHIT VERMA\Downloads\CSE2007_DBMS_Lab_Manual.pdf
c:\Users\NISHIT VERMA\Downloads\desktop.ini
c:\Users\NISHIT VERMA\Downloads\example.pdf
c:\Users\NISHIT VERMA\Downloads\exe.ico
c:\Users\NISHIT VERMA\Downloads\GitHubDesktopSetup.exe
c:\Users\NISHIT VERMA\Downloads\GoPro-Webcam-1.0.224.pkg
c:\Users\NISHIT VERMA\Downloads\hashcode_2021_online_qualifications.pdf
c:\Users\NISHIT VERMA\Downloads\hw.py
c:\Users\NISHIT VERMA\Downloads\hw.spec
c:\Users\NISHIT VERMA\Downloads\ilovepdf_converted.zip
c:\Users\NISHIT VERMA\Downloads\ip morpan 2023.xlsx
c:\Users\NISHIT VERMA\Downloads\kali-linux-2020.4-installer-amd64.iso
c:\Users\NISHIT VERMA\Downloads\launch4j-3.13-win32.exe
c:\Users\NISHIT VERMA\Downloads\LinkedIn-Logos.zip
c:\Users\NISHIT VERMA\Downloads\MicrosoftTeams-image.png
c:\Users\NISHIT VERMA\Downloads\mingw-w64-install.exe
c:\Users\NISHIT VERMA\Downloads\My_Image.jpg
c:\Users\NISHIT VERMA\Downloads\nature.png
c:\Users\NISHIT VERMA\Downloads\Nishit Verma's Resume.pdf
c:\Users\NISHIT VERMA\Downloads\Nishit.jpg
c:\Users\NISHIT VERMA\Downloads\Nishit.png
c:\Users\NISHIT VERMA\Downloads\OracleXE112_Win64.zip
c:\Users\NISHIT VERMA\Downloads\PacketTracer-7.3.1-win64-setup.exe
c:\Users\NISHIT VERMA\Downloads\PS Auto_06.03.2021.pptx
c:\Users\NISHIT VERMA\Downloads\single row.docx
c:\Users\NISHIT VERMA\Downloads\SOLUTIONS.docx
c:\Users\NISHIT VERMA\Downloads\swipl-8.3.4-1.x64.exe
c:\Users\NISHIT VERMA\Downloads\test.txt
c:\Users\NISHIT VERMA\Downloads\Thumbnail_08-02-2021.jpg
c:\Users\NISHIT VERMA\Downloads\Whitehat.jpg
c:\Users\NISHIT VERMA\Downloads\~$M(2019-20)_ENG2001_ETH_AF2019205000419_Reference_Material_I_20-Dec-2019_RESUMES_AND_JOB_APPLICATIONS.docx
>>>
```

(Q) Write a python script to get all the directory names in the current directory.

Dir.py

```
import os

path = 'c:\\Users\\NISHIT VERMA\\Downloads'

folders = []

os.listdir(path)

for r, d, f in os.walk(path):

    folders.append(d)

    break

for f in folders:

    print(f)
```

Output

```
===== RESTART: C:\Users\NISHIT VERMA\Desktop\Dir.py =====
['build', 'dist', 'folder', 'LinkedIn-Logos', '__pycache__']
>>> |
```

(Q) Write a python script to get all the directory and subdirectory names in the current directory.

AllDir.py

```
import os

path = 'c:\\Users\\NISHIT VERMA\\Downloads'

folders = []

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

```

===== RESTART: C:\Users\NISHIT VERMA\Desktop\AllDir.py =====
c:\Users\NISHIT VERMA\Downloads\build
c:\Users\NISHIT VERMA\Downloads\dist
c:\Users\NISHIT VERMA\Downloads\folder
c:\Users\NISHIT VERMA\Downloads\LinkedIn-Logos
c:\Users\NISHIT VERMA\Downloads\__pycache__
c:\Users\NISHIT VERMA\Downloads\build\hw
c:\Users\NISHIT VERMA\Downloads\build\hw
c:\Users\NISHIT VERMA\Downloads\folder\folder1
c:\Users\NISHIT VERMA\Downloads\folder\folder1\folder2
>>> |

```

(Q) Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory.

Allfd.py

```

import os

import glob

path = 'c:\\Users\\NISHIT VERMA\\Downloads'

print("All the files : \n")

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

for f in files:

    print(f)

print("\nAll the directories and sub directories : \n")

folders = []

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

```
===== RESTART: C:\Users\NISHIT VERMA\Desktop\Allfd.py =====
All the files :

c:\Users\NISHIT VERMA\Downloads\hw.spec
c:\Users\NISHIT VERMA\Downloads\12th_marksheet.pdf
c:\Users\NISHIT VERMA\Downloads\19BCE7354.zip
c:\Users\NISHIT VERMA\Downloads\19BCN7050.zip
c:\Users\NISHIT VERMA\Downloads\2019065233.pdf
c:\Users\NISHIT VERMA\Downloads\7z1900-x64.exe
c:\Users\NISHIT VERMA\Downloads\7z1900-x64.msi
c:\Users\NISHIT VERMA\Downloads\ASS_1.pdf
c:\Users\NISHIT VERMA\Downloads\ass_4.docx
c:\Users\NISHIT VERMA\Downloads\blank.java
c:\Users\NISHIT VERMA\Downloads\c++basics.pptx
c:\Users\NISHIT VERMA\Downloads\Coded inequalities and Quadratic equations (Basic).pptx
c:\Users\NISHIT VERMA\Downloads\CSE2007_DBMS_Lab Manual.pdf
c:\Users\NISHIT VERMA\Downloads\CSS_grid layout.png
c:\Users\NISHIT VERMA\Downloads\desktop.ini
c:\Users\NISHIT VERMA\Downloads\Emp_sql ql.doc
c:\Users\NISHIT VERMA\Downloads\example.pdf
c:\Users\NISHIT VERMA\Downloads\exe.ico
c:\Users\NISHIT VERMA\Downloads\GitHubDesktopSetup.exe
c:\Users\NISHIT VERMA\Downloads\GoPro-Webcam-1.0.224.pkg
c:\Users\NISHIT VERMA\Downloads\hashcode_2021_online_qualifications.pdf
c:\Users\NISHIT VERMA\Downloads\hw.py
c:\Users\NISHIT VERMA\Downloads\hw.spec
c:\Users\NISHIT VERMA\Downloads\ilovepdf_converted.zip
c:\Users\NISHIT VERMA\Downloads\jp_morgan_2023.xlsx
c:\Users\NISHIT VERMA\Downloads\kali-linux-2020.4-installer-amd64.iso
c:\Users\NISHIT VERMA\Downloads\launch4j-3.13-win32.exe
c:\Users\NISHIT VERMA\Downloads\LinkedIn-Logos.zip
c:\Users\NISHIT VERMA\Downloads\MicrosoftTeams-image.png
c:\Users\NISHIT VERMA\Downloads\mingw-w64-install.exe
c:\Users\NISHIT VERMA\Downloads\My_Image.jpg
c:\Users\NISHIT VERMA\Downloads\nature.png
c:\Users\NISHIT VERMA\Downloads\Nishit Verma's Resume.pdf
c:\Users\NISHIT VERMA\Downloads\Nishit.jpg
c:\Users\NISHIT VERMA\Downloads\Nishit.png
c:\Users\NISHIT VERMA\Downloads\OracleXE112_Win64.zip
c:\Users\NISHIT VERMA\Downloads\PacketTracer-7.3.1-win64-setup.exe
c:\Users\NISHIT VERMA\Downloads\FS_Auto_06.03.2021.pptx
c:\Users\NISHIT VERMA\Downloads\single_row.docx
c:\Users\NISHIT VERMA\Downloads\SOLUTIONS.docx
c:\Users\NISHIT VERMA\Downloads\SQL_QUERIES.pdf
c:\Users\NISHIT VERMA\Downloads\swipl-8.2.4-1.x64.exe
c:\Users\NISHIT VERMA\Downloads\test.txt
c:\Users\NISHIT VERMA\Downloads\Thumbnail_08-02-2021.jpg
c:\Users\NISHIT VERMA\Downloads\WhiteHat.jpg
c:\Users\NISHIT VERMA\Downloads\~4N(2019-20)_ENG2001_ETH_AP2019205000419_Reference_Material_I_20-Dec-2019_RESUMES_AND_JOB_APPLICATIONS.docx

All the directories and sub directories :

c:\Users\NISHIT VERMA\Downloads\build
c:\Users\NISHIT VERMA\Downloads\dist
c:\Users\NISHIT VERMA\Downloads\folder
c:\Users\NISHIT VERMA\Downloads\LinkedIn-Logos
c:\Users\NISHIT VERMA\Downloads\__pycache__
c:\Users\NISHIT VERMA\Downloads\build\hw
c:\Users\NISHIT VERMA\Downloads\build\hw
c:\Users\NISHIT VERMA\Downloads\folder\folder1
c:\Users\NISHIT VERMA\Downloads\folder\folder1\folder2
>>> |
```

(Q) 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.

Drive.py

```
import os

import glob

path = 'c:'

fw = open("Cdrive.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 r, d, f in os.walk(path):

    for folder in d:

        folders.append(os.path.join(r, folder))

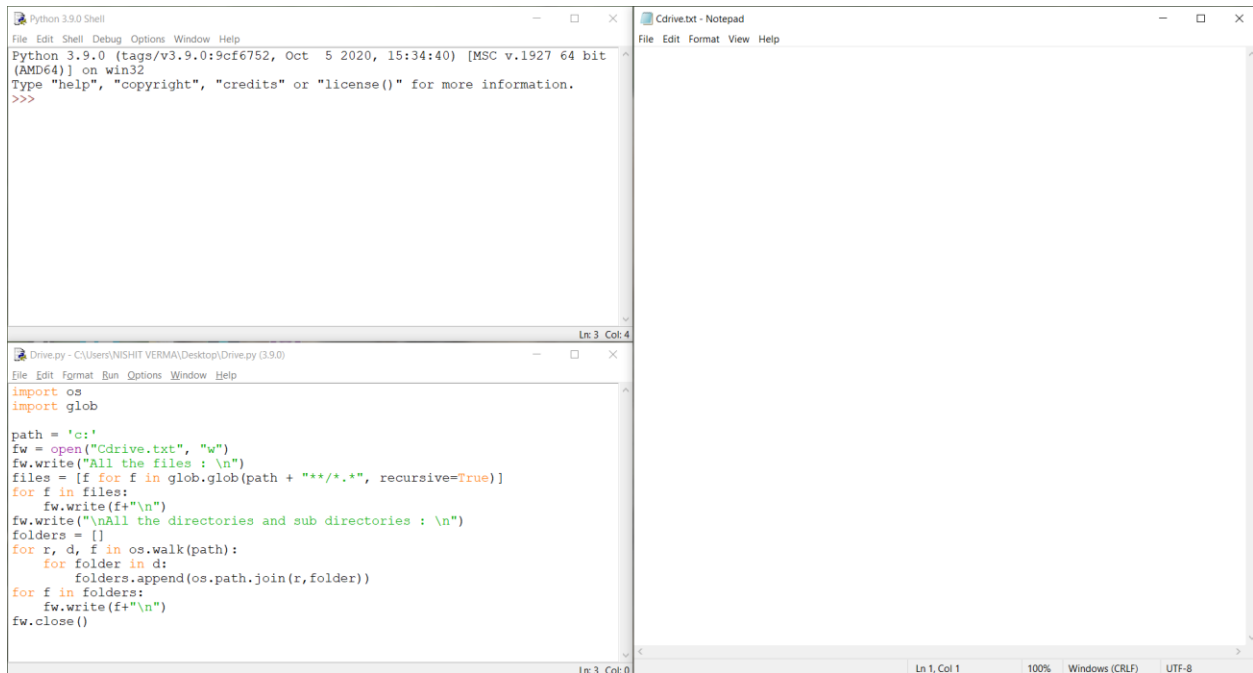
for f in folders:

    fw.write(f+"\n")

fw.close()
```

Output

Before Execution

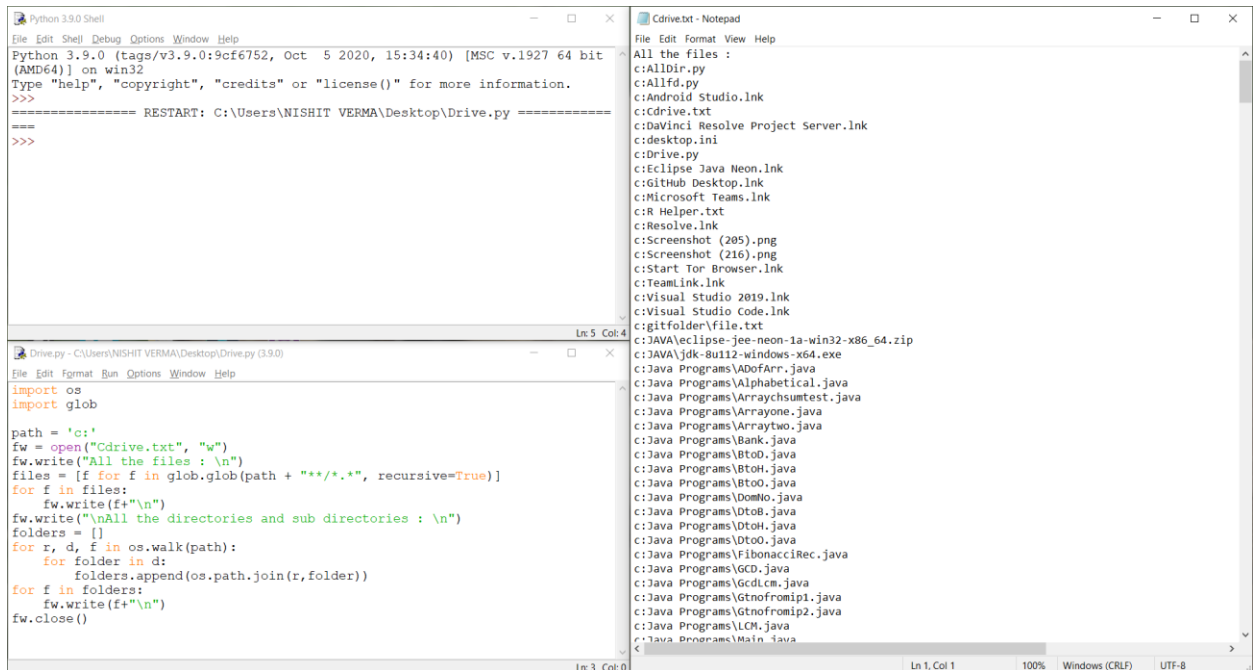


The screenshot shows two windows. The left window is a Python 3.9.0 Shell with the prompt >>>. The right window is a Notepad file named 'Cdrive.txt' which is currently empty.

```
Python 3.9.0 Shell
File Edit Shell Debug Options Window Help
Python 3.9.0 (tags/v3.9.0:9cf6752, Oct 5 2020, 15:34:40) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>

Cdrive.txt - Notepad
File Edit Format View Help
```

After Execution



The screenshot shows the same two windows after execution. The Python Shell now displays the output of the script, listing all files and directories found on the C: drive. The Notepad window now contains the same list of files and directories.

```
Python 3.9.0 Shell
File Edit Shell Debug Options Window Help
Python 3.9.0 (tags/v3.9.0:9cf6752, Oct 5 2020, 15:34:40) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\NISHIT VERMA\Desktop\Drive.py =====
>>>

Cdrive.txt - Notepad
File Edit Format View Help
All the files :
c:\AllDir.py
c:\Allfd.py
c:\Android Studio.lnk
c:\Cdrive.txt
c:\DaVinci Resolve Project Server.lnk
c:\desktop.ini
c:\Drive.py
c:\Eclipse Java Neon.lnk
c:\GitHub Desktop.lnk
c:\Microsoft Teams.lnk
c:\R Helper.txt
c:\Resolve.lnk
c:\Screenshot (205).png
c:\Screenshot (216).png
c:\Start Tor Browser.lnk
c:\TeamLink.lnk
c:\Visual Studio 2019.lnk
c:\Visual Studio Code.lnk
c:\gitfolder\file.txt
c:\JAVA\eclipse-jee-neon-1a-win32-x86_64.zip
c:\JAVA\jdk-8u112-windows-x64.exe
c:\Java Programs\AdofArrr.java
c:\Java Programs\Alphabetical.java
c:\Java Programs\Arraychsumtest.java
c:\Java Programs\Arrayone.java
c:\Java Programs\Arraytwo.java
c:\Java Programs\Bank.java
c:\Java Programs\BtoD.java
c:\Java Programs\BtoH.java
c:\Java Programs\BtoO.java
c:\Java Programs\Domino.java
c:\Java Programs\DtoB.java
c:\Java Programs\DtoH.java
c:\Java Programs\DtoO.java
c:\Java Programs\FibonacciRec.java
c:\Java Programs\GCD.java
c:\Java Programs\gcd.cm.java
c:\Java Programs\Gtnofromip1.java
c:\Java Programs\Gtnofromip2.java
c:\Java Programs\LCM.java
c:\Java Programs\Main.java
```

The screenshot shows two windows. The top window is a Python 3.9.0 Shell with the following text:

```
Python 3.9.0 (tags/v3.9.0:9cf6752, Oct 5 2020, 15:34:40) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\NISHIT VERMA\Desktop\Drive.py =====
>>>
```

The bottom window is a Notepad file named 'Drive.txt' containing the output of the script:

```
c:\Tor Browser\Browser\TorBrowser\Tor\PluggableTransports\obfs4proxy.exe
c:\Tor Browser\Browser\TorBrowser\UpdateInfo\active-update.xml
c:\Tor Browser\Browser\TorBrowser\UpdateInfo\updates.xml
c:\Tor Browser\Browser\TorBrowser\UpdateInfo\updates\backup-update.log
c:\Tor Browser\Browser\TorBrowser\UpdateInfo\updates\last-update.log
c:\Tor Browser\Browser\TorBrowser\UpdateInfo\updates\0\update.mar
c:\Tor Browser\Browser\TorBrowser\UpdateInfo\updates\0\update.status

All the directories and sub directories :
c:\gitfolder
c:\JAVA
c:\Java Programs
c:\MS Office
c:\Tor Browser
c:\MS Office\Access.en-us
c:\MS Office\Admin
c:\MS Office\Catalog
c:\MS Office\Enterprise.MW
c:\MS Office\Excel.en-us
c:\MS Office\Groove.en-us
c:\MS Office\InfoPath.en-us
c:\MS Office\Office.en-us
c:\MS Office\Office64.en-us
c:\MS Office\OneNote.en-us
c:\MS Office\Outlook.en-us
c:\MS Office\PowerPoint.en-us
c:\MS Office\Proofing.en-us
c:\MS Office\Publisher.en-us
c:\MS Office\Rosebud.en-us
c:\MS Office\Updates
c:\MS Office\Word.en-us
c:\MS Office\Access.en-us\Access.en-us
c:\MS Office\Admin\de-de
c:\MS Office\Admin\en-us
c:\MS Office\Admin\es-es
c:\MS Office\Admin\fr-fr
c:\MS Office\Admin\it-it
c:\MS Office\Admin\ja-jp
c:\MS Office\Admin\ko-kr
c:\MS Office\Admin\zh-cn
c:\MS Office\Admin\zh-tw
c:\MS Office\Groove.en-us\Groove.en-us
```

(Q) Write a python script which creates four new files in the current directory using Powershell.

files.py

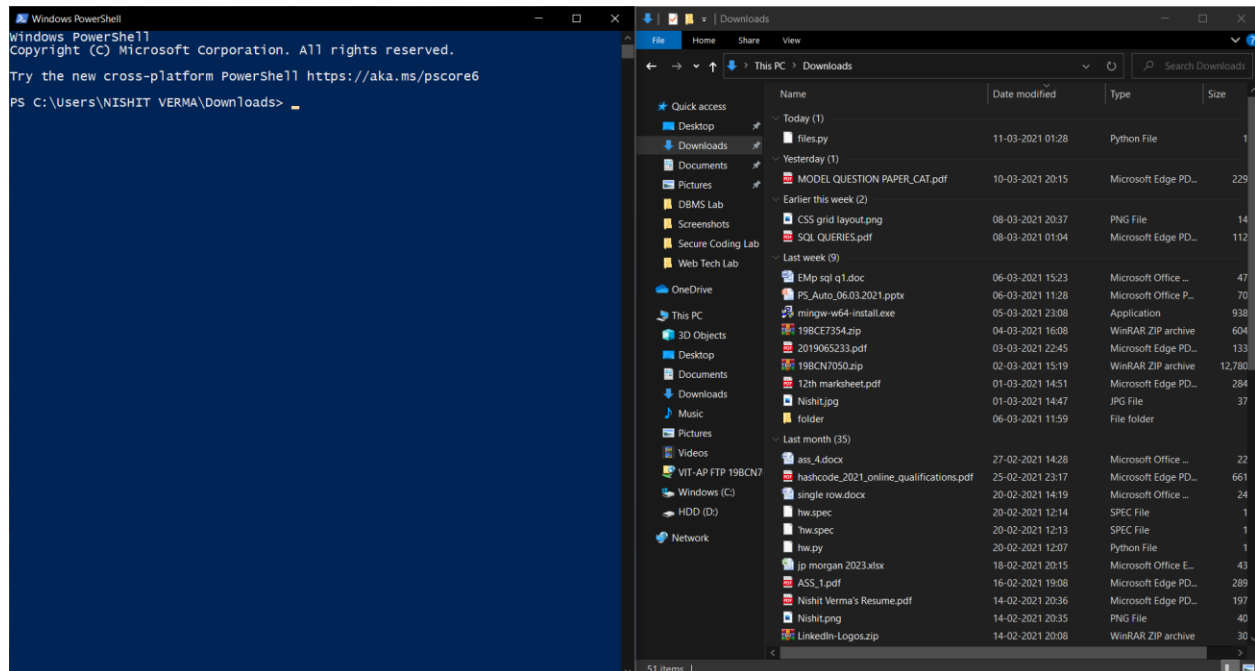
for i in range(1,5):

file = open("c:\\Users\\NISHIT VERMA\\Downloads\\test%s.txt" %i, "w")

file.close()

Output

Before Execution



After Execution

