## Secure Coding

Lab-6

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1. Python script to get file names in directory

```
₱ Q1.py > ...

      import os
      basepath = 'D:\CollegeStuff\Sem 6\SC\Lab'
      for entry in os.listdir(basepath):
           if os.path.isfile(os.path.join(basepath,entry)):
               print(entry)
PROBLEMS 7
             OUTPUT
                     DEBUG CONSOLE
                                    TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\CollegeStuff\Sem 6\SC\Lab> python -u "d:\CollegeStuff\Sem 6\SC\Lab\Q1.py"
FileRep.class
FileRep.java
Q1.py
PS D:\CollegeStuff\Sem 6\SC\Lab>
```

2. Script to get all directory names

3. Get all directories and sub-directories

4. Get all directories, sub-directories, and files recursively

```
Q1.py > ...
      import os
  2
      for dirpath, dirnames, files in os.walk('.'):
          print('found directory:' + dirpath)
  5
           for file name in files:
               print(file name)
PROBLEMS 3 OUTPUT DEBUG CONSOLE
                                     TERMINAL
found directory:.\Lab4
script.py
script.spec
setup.py
found directory:.\Lab4\build
found directory:.\Lab4\build\script
Analysis-00.toc
base library.zip
EXE-00.toc
PKG-00.pkg
PKG-00.toc
PYZ-00.pyz
PYZ-00.toc
script.exe.manifest
warn-script.txt
xref-script.html
found directory:.\Lab4\dist
library.zip
pyexpat.pyd
python36.dll
script.exe
select.pyd
unicodedata.pyd
bz2.pyd
ctypes.pyd
hashlib.pyd
lzma.pyd
socket.pyd
ssl.pyd
found directory:.\Lab4\ScriptForLocking
found directory:.\Lab4\ pycache
script.cpython-36.pyc
PS D:\CollegeStuff\Sem 6\SC\Lab>
```

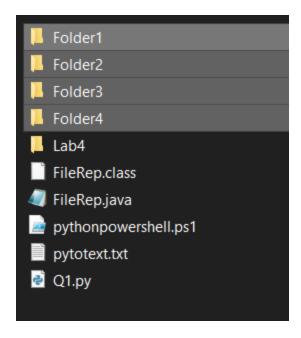
5. Python script to get all file names and directories in a drive recursively and save to a text file

```
import os
      f=open("pytotext.txt","w+")
      for dirpath, dirnames, files in os.walk('D:/'):
          print('Found directory: '+dirpath)
          f.write("-----"+dirpath+"----")
          for file_name in files:
              print(file_name)
              f.write(file_name+"\n")
 10
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL
to-have-value.js
Found directory: D:/CollegeStuff\Sem 6\Cloud\chat-app\client\node_modules\@testing-library\jest-dom\node_modules
Found directory: D:/CollegeStuff\Sem 6\Cloud\chat-app\client\node_modules\@testing-library\jest-dom\node_modules\ansi-styles
index.d.ts
index.js
license
package.json
readme.md
Found directory: D:/CollegeStuff\Sem 6\Cloud\chat-app\client\node_modules\@testing-library\jest-dom\node_modules\chalk
index.d.ts
license
package.json
readme.md
Found directory: D:/CollegeStuff\Sem 6\Cloud\chat-app\client\node_modules\@testing-library\jest-dom\node_modules\chalk\source
templates.js
util.js
Found \ directory: \ D:/CollegeStuff\ Sem \ 6\ Cloud\ chat-app\ client\ node\_modules\ @testing-library\ jest-dom\ node\_modules\ color-convert
CHANGELOG.md
conversions.js
index.js
LICENSE
package.json
README.md
route.js
Found directory: D:/CollegeStuff\Sem 6\cloud\chat-app\client\node modules\@testing-library\jest-dom\node modules\color-name
index.js
```

```
pytotext.txt - Notepad
-----D:/----%2009%20Feb%20% authorizedID=18BCN7088&x=Tue,%2009%20Feb%20
dir.txt
H_I_N_A_T_A-wallpa4.jpg
thatha pension claim.txt
types.txt
-----D:/$RECYCLE.BIN------D:/$RECYCLE.BIN\S-1-5-21-4003365702-:
$I0V8CAM.pdf
$I20L98K.java
$I2CG8HB
$I2GY9KK
$I31KDKG
$I3I0E0M.meta
$I3QTIV9.java
$I4U8BQZ.m
$1509VRF
$I5Z9XCU.mp4
$I69DMAQ
$I6H6ZSI.mat
                                                                 へ ふ 智 (係 ゆ) ENG 17:55
04-04-2021
O 🖽 🕓 🥫 💼
```

6. Python script to create 4 new directories using powershell

```
♦ Q1.py > ...
      import os, subprocess, sys
      f=open("D:\\pythonpowershell.ps1","w+")
      f.write("D:;mkdir Folder1;mkdir Folder2;mkdir Folder3;mkdir Folder4")
      f.close()
      p = subprocess.Popen(["powershell.exe",
                     "D:\\pythonpowershell.ps1"],
 8
                     stdout=sys.stdout)
      p.communicate()
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\CollegeStuff\Sem 6\SC\Lab> python -u "d:\CollegeStuff\Sem 6\SC\Lab\Q1.py"
   Directory: D:\CollegeStuff\Sem 6\SC\Lab
Mode
                   LastWriteTime
                                        Length Name
            04-04-2021 22:55
04-04-2021 22:55
                                               Folder1
                                               Folder2
                                               Folder3
            04-04-2021 22:55
            04-04-2021 22:55
                                                Folder4
```



7. Powershell 5 most memory consuming processes

```
PS C:\Users\santhosh> Get-Process | Sort-Object -Descending WS | Select -first 5
Handles NPM(K)
                   PM(K)
                              WS(K)
                                         CPU(s)
                                                    Id SI ProcessName
    492
            148
                  319084
                             336180
                                         153.91 16960 17 Teams
   1744
            174
                             279868
                                          15.58 19028 17 SearchUI
                  206480
   996
            101
                  353924
                             260644
                                                  4512 0 MsMpEng
            39
                  343844
                             242288
                                          26.97
                                                  6776 17 chrome
   825
   2152
             71
                  120748
                             207532
                                          55.03 12612 17 chrome
PS C:\Users\santhosh> ps | sort -p ws | -last 5
    + CategoryInfo : ObjectNotFound: (-last:String) [], CommandNotFoundE
+ FullyQualifiedErrorId : CommandNotFoundException
PS C:\Users\santhosh> ps | sort -p ws | --last 5
             ession after unary operator '--'.
PS C:\Users\santhosh> ps | sort -p ws | select -last 5
Handles NPM(K)
                   PM(K)
                              WS(K)
                                        CPU(s)
                                                    Id SI ProcessName
   2143
             70
                  119408
                             206508
                                         55.52 12612 17 chrome
                                                  6776 17 chrome
    827
                  295528
            39
                             242740
                                          27.50
   1005
            101
                  354420
                             274120
                                                  4512 0 MsMpEng
   1744
            174
                  206480
                             279868
                                         15.58 19028 17 SearchUI
   492
            149
                  321596
                             338464
                                         156.67 16960 17 Teams
```