

**NAME:** C NAVEEN

**REG** : 19BCE7028

## 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)
```

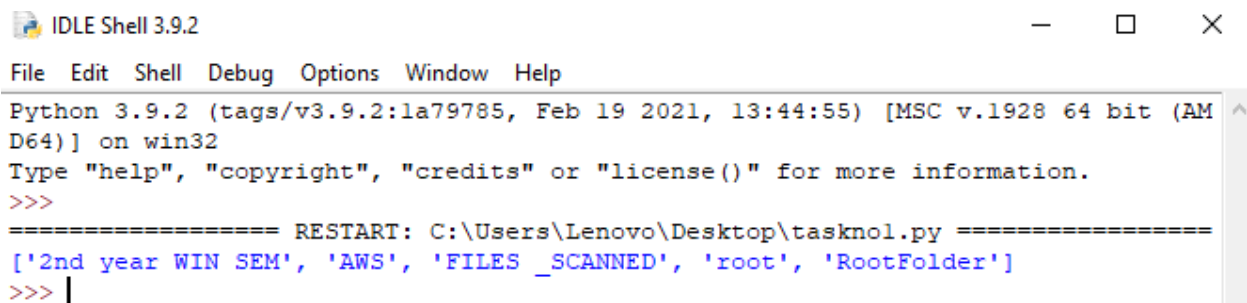
```
    break
```

```
for dirnames in
```

```
    folders:
```

```
    print(dirnames)
```

## Output:



```
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:

```
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 = []

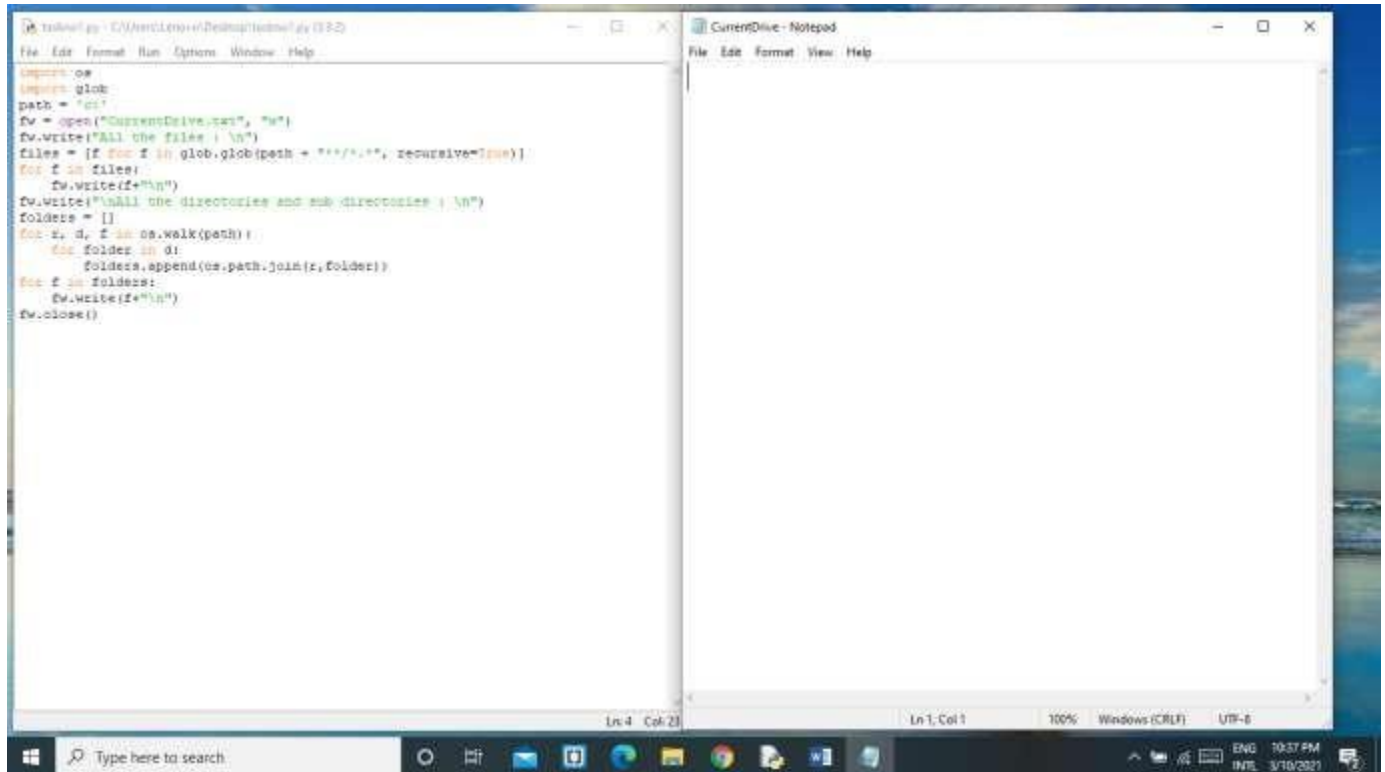
for root, dirnames, f in
    os.walk(path): for folder in
        dirnames:

            folders.append(os.path.join(root,folde
r)) for f in folders:

                fw.write(f+"\n")
fw.close()
```

## Output

### Before Execution:



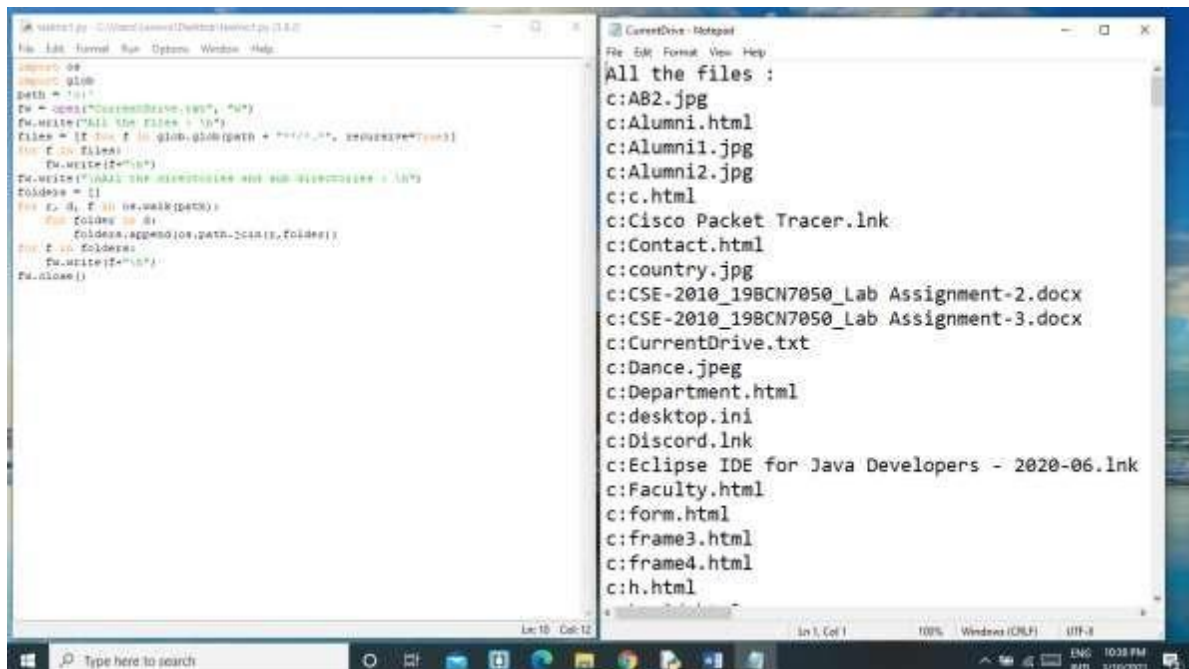
```
testnotepad.py - C:\Users\user\Desktop\testnotepad.py (3.8.2)
File Edit Format Run Options Window Help
import os
import glob
path = "c:"
fw = open("CurrentDrive.txt", "w")
fw.write("All the files : \n")
files = [f for f in glob.glob(path + "**/*.*", recursive=True)]
for f in files:
    fw.write(f+"\n")
fw.write("\nAll the directories and sub-directories : \n")
folders = []
for z, d, f in os.walk(path):
    for folder in d:
        folders.append(os.path.join(z, folder))
for f in folders:
    fw.write(f+"\n")
fw.close()

Ln 4, Col 23

CurrentDrive - Notepad
File Edit Format View Help

Ln 1, Col 1
100% Windows (CRLF) UTF-8
```

### After execution:



```
testnotepad.py - C:\Users\user\Desktop\testnotepad.py (3.8.2)
File Edit Format Run Options Window Help
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 z, d, f in os.walk(path):
    for folder in d:
        folders.append(os.path.join(z, folder))
for f in folders:
    fw.write(f+"\n")
fw.close()

Ln 10, Col 12

CurrentDrive - Notepad
File Edit Format View Help
All the files :
c:AB2.jpg
c:Alumni.html
c:Alumni1.jpg
c:Alumni2.jpg
c:c.html
c:Cisco Packet Tracer.lnk
c:Contact.html
c:country.jpg
c:CSE-2010_198CN7050_Lab Assignment-2.docx
c:CSE-2010_198CN7050_Lab Assignment-3.docx
c:CurrentDrive.txt
c:Dance.jpeg
c:Department.html
c:desktop.ini
c:Discord.lnk
c:Eclipse IDE for Java Developers - 2020-06.lnk
c:Faculty.html
c:form.html
c:frame3.html
c:frame4.html
c:h.html

Ln 1, Col 1
100% Windows (CRLF) UTF-8
```

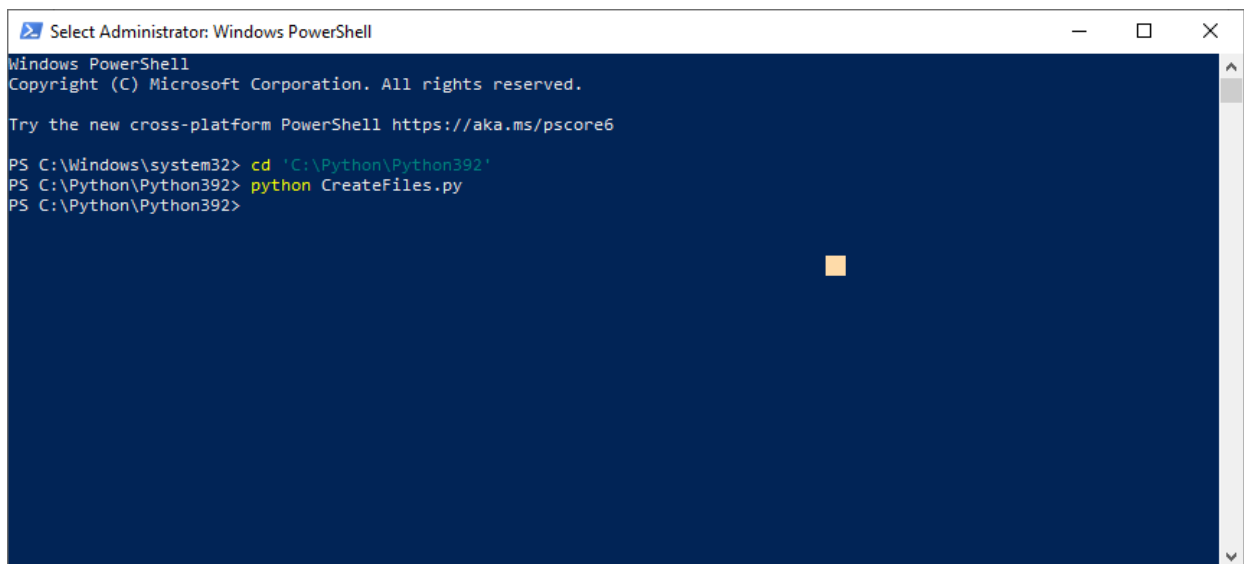
## Question

### Python code:

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

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

### Powershell execution:

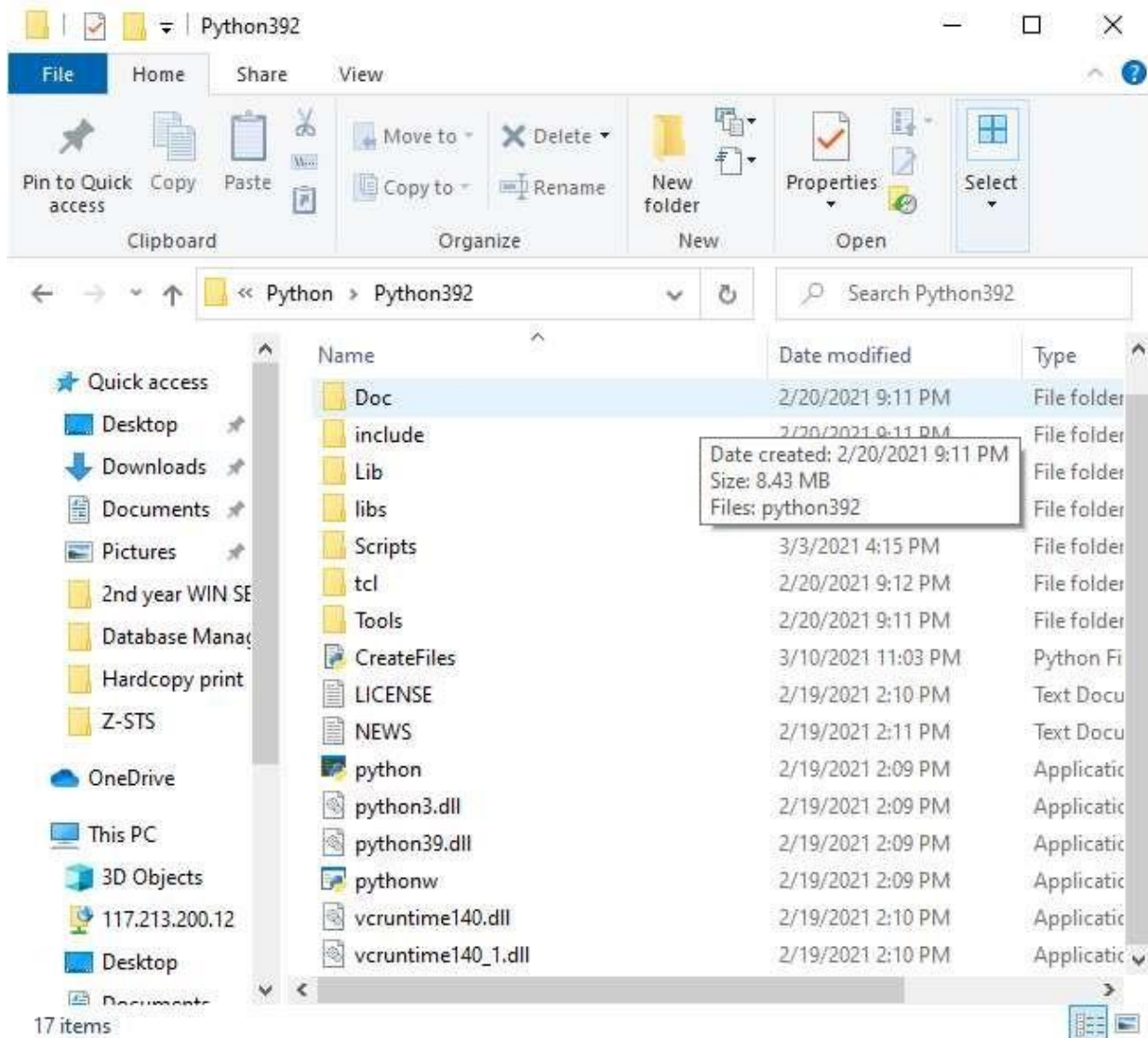


```
Select Administrator: Windows PowerShell
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

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

## Output Before



## Output After

