

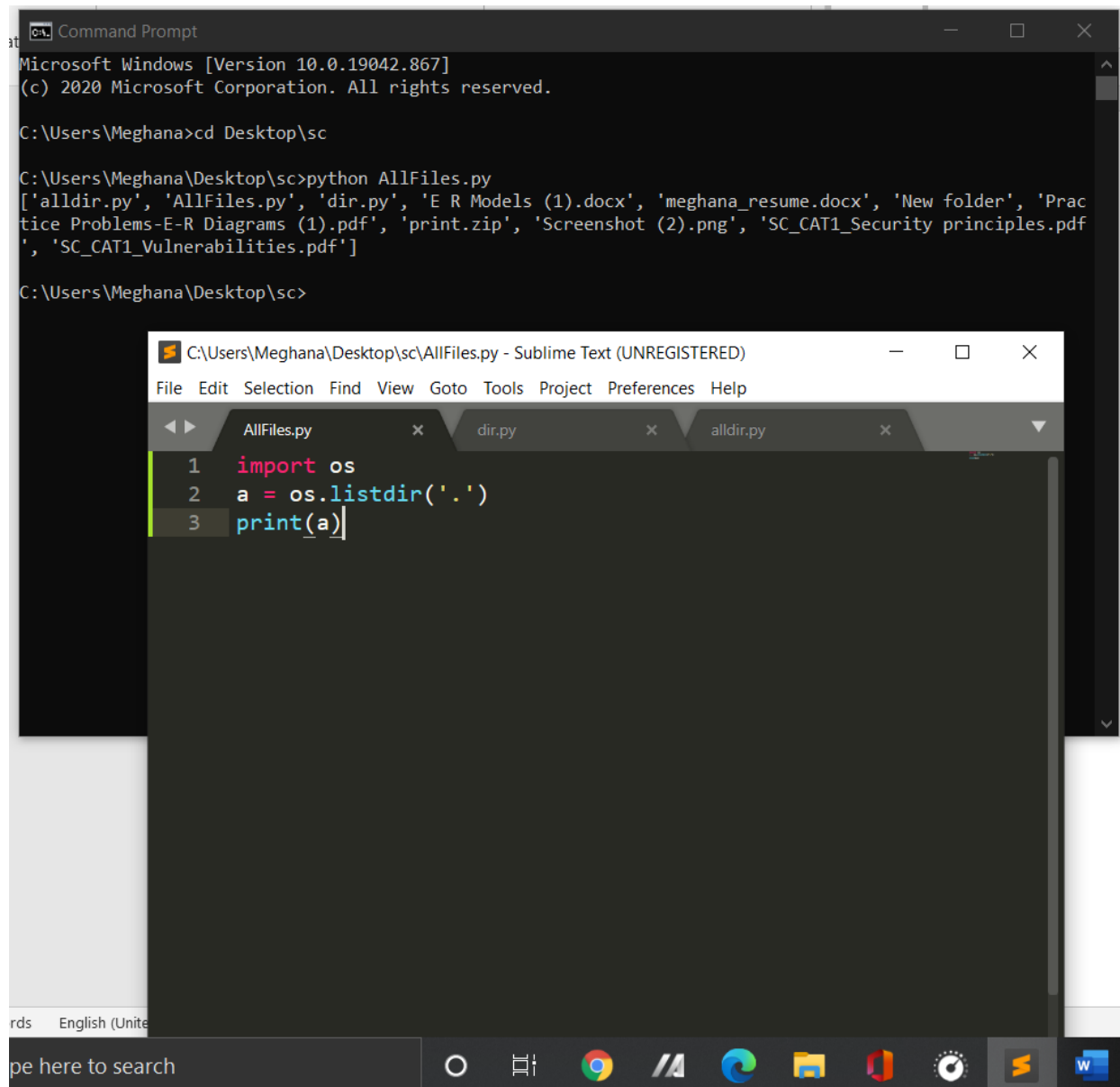
SECURE CODING LAB 6

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

AllFiles.py



```
Microsoft Windows [Version 10.0.19042.867]
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C:\Users\Meghana>cd Desktop\sc

C:\Users\Meghana\Desktop\sc>python AllFiles.py
['alldir.py', 'AllFiles.py', 'dir.py', 'E R Models (1).docx', 'meghana_resume.docx', 'New folder', 'Practice Problems-E-R Diagrams (1).pdf', 'print.zip', 'Screenshot (2).png', 'SC_CAT1_Security principles.pdf', 'SC_CAT1_Vulnerabilities.pdf']

C:\Users\Meghana\Desktop\sc>
```

```
C:\Users\Meghana\Desktop\sc\AllFiles.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

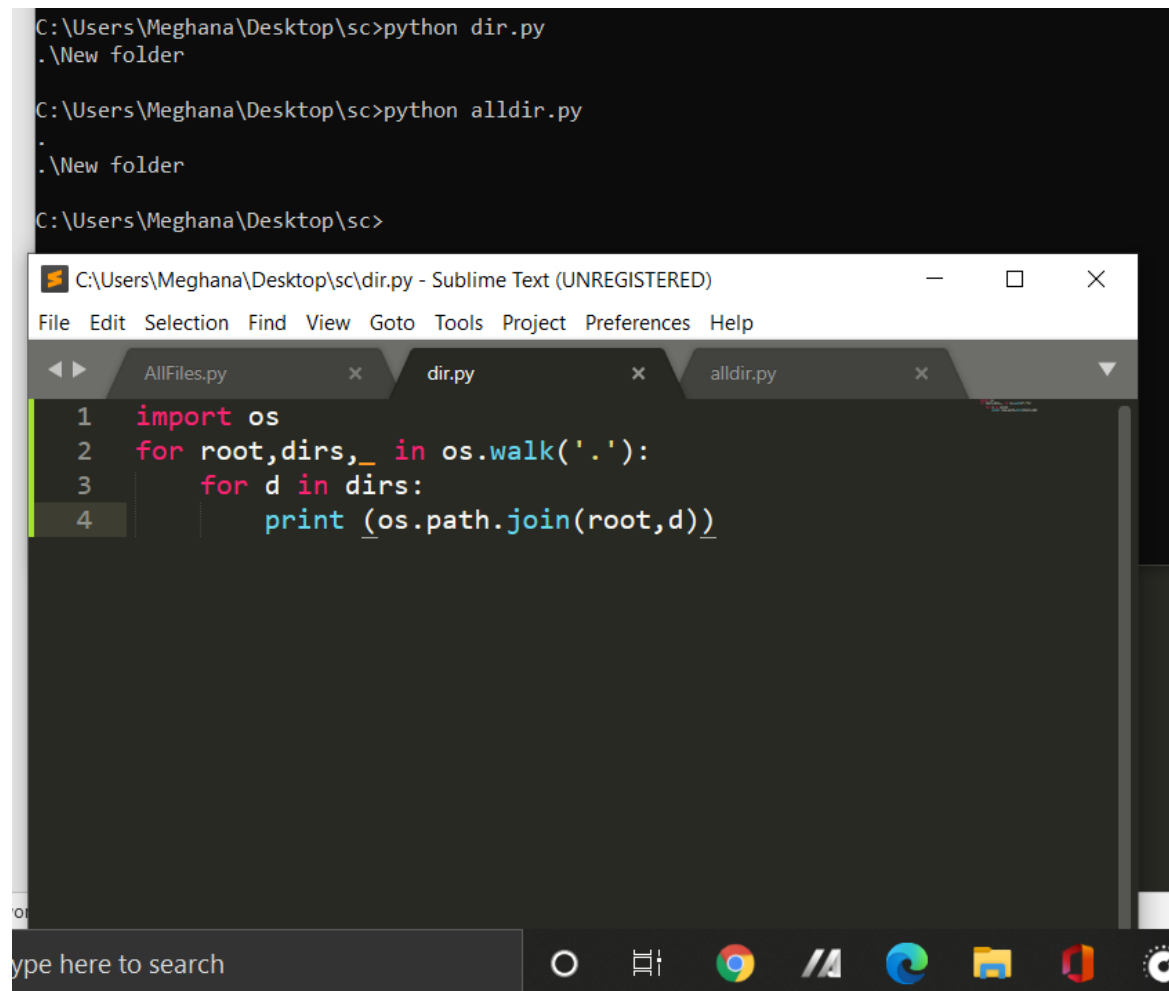
AllFiles.py x dir.py x alldir.py x
1 import os
2 a = os.listdir('.')
3 print(a)
```

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

```
C:\Users\Meghana\Desktop\sc>python dir.py
.\New folder

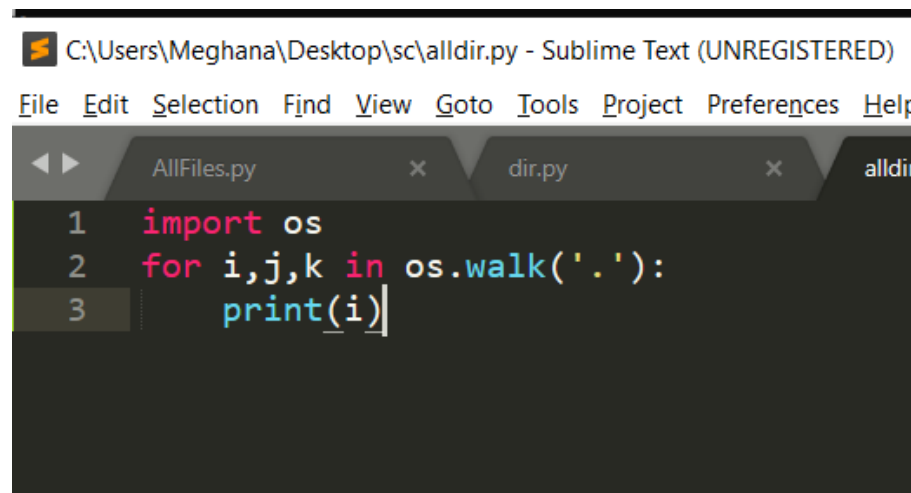
C:\Users\Meghana\Desktop\sc>python alldir.py
.
.\New folder

C:\Users\Meghana\Desktop\sc>
```



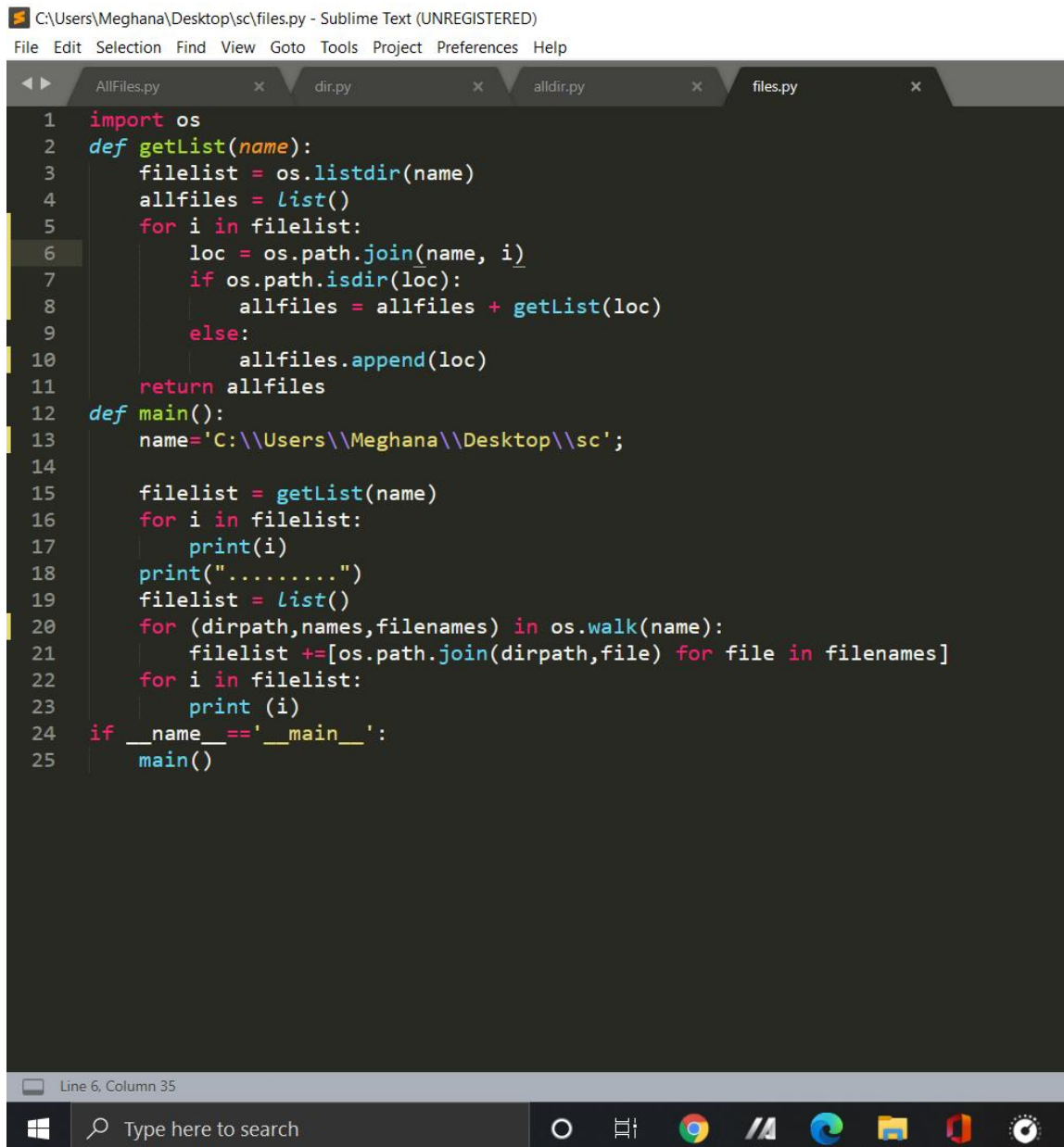
```
C:\Users\Meghana\Desktop\sc\dir.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
AllFiles.py x dir.py x alldir.py x
1 import os
2 for root,dirs,_ in os.walk('.'):
3     for d in dirs:
4         print (os.path.join(root,d))
```

3) Write a python script to get all the directory and subdirectory names in the current directory



```
C:\Users\Meghana\Desktop\sc\alldir.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
AllFiles.py x dir.py x alldir.py x
1 import os
2 for i,j,k in os.walk('.'):
3     print(i)
```

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



The screenshot shows a Sublime Text editor window titled "C:\Users\Meghana\Desktop\sc\files.py - Sublime Text (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The editor has four tabs: AllFiles.py, dir.py, alldir.py, and files.py. The code in files.py is as follows:

```
1 import os
2 def getList(name):
3     filelist = os.listdir(name)
4     allfiles = list()
5     for i in filelist:
6         loc = os.path.join(name, i)
7         if os.path.isdir(loc):
8             allfiles = allfiles + getList(loc)
9         else:
10            allfiles.append(loc)
11    return allfiles
12 def main():
13     name='C:\\Users\\Meghana\\Desktop\\sc';
14
15     filelist = getList(name)
16     for i in filelist:
17         print(i)
18     print(".....")
19     filelist = list()
20     for (dirpath, names, filenames) in os.walk(name):
21         filelist += [os.path.join(dirpath, file) for file in filenames]
22     for i in filelist:
23         print (i)
24 if __name__ == '__main__':
25     main()
```

The status bar at the bottom indicates "Line 6, Column 35". The Windows taskbar is visible at the very bottom with the search bar and several application icons.

5) 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.

C:\Users\Meghana\Desktop\sc\files.py - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

```
1 import os
2 import sys
3 stdoutOrigin = sys.stdout
4 sys.stdout = open("Files.txt", "w")
5 def getList(name):
6     filelist = os.listdir(name)
7     allfiles = List()
8     for i in filelist:
9         loc = os.path.join(name, i)
10        if os.path.isdir(loc):
11            allfiles = allfiles + getList(loc)
12        else:
13            allfiles.append(loc)
14    return allfiles
15 def main():
16     name = 'C:\\Users\\Meghana\\Desktop\\sc';
17
18     filelist = getList(name)
19     for i in filelist:
20         print(i)
21     print(".....")
22     filelist = List()
23     for (dirpath, names, filenames) in os.walk(name):
24         filelist += [os.path.join(dirpath, file) for file in filenames]
25     for i in filelist:
26         print(i)
27 if __name__ == '__main__':
28     main()
```

Line 7, Column 22

Type here to search

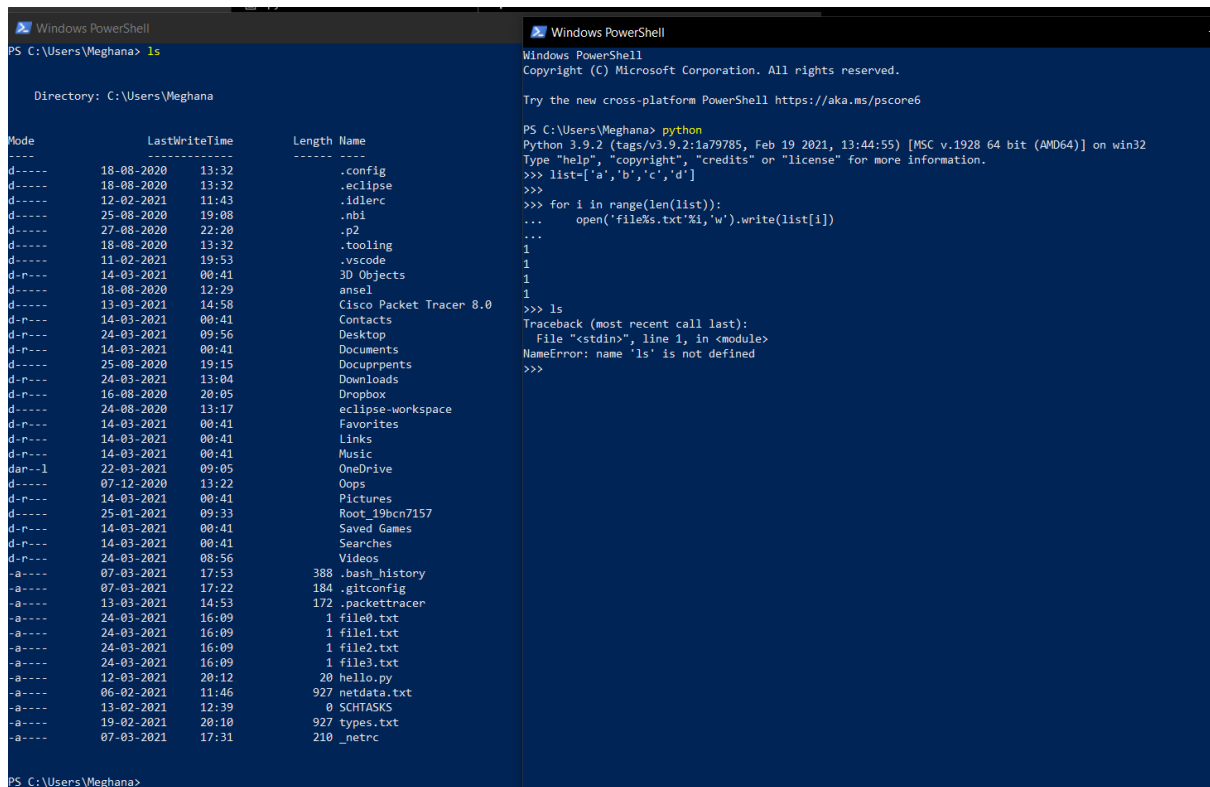
```
Command Prompt
C:\Users\Meghana\Desktop\sc\dir.py
C:\Users\Meghana\Desktop\sc\E R Models (1).docx
C:\Users\Meghana\Desktop\sc\files.py
C:\Users\Meghana\Desktop\sc\meghana_resume.docx
C:\Users\Meghana\Desktop\sc\New folder\dir.py
C:\Users\Meghana\Desktop\sc\Practice Problems-E-R Diagrams (1).pdf
C:\Users\Meghana\Desktop\sc\print.zip
C:\Users\Meghana\Desktop\sc\Screenshot (2).png
C:\Users\Meghana\Desktop\sc\SC_CAT1_Security principles.pdf
C:\Users\Meghana\Desktop\sc\SC_CAT1_Vulnerabilities.pdf
.....
C:\Users\Meghana\Desktop\sc\alldir.py
C:\Users\Meghana\Desktop\sc\AllFiles.py
C:\Users\Meghana\Desktop\sc\dir.py
C:\Users\Meghana\Desktop\sc\E R Models (1).docx
C:\Users\Meghana\Desktop\sc\files.py
C:\Users\Meghana\Desktop\sc\meghana_resume.docx
C:\Users\Meghana\Desktop\sc\Practice Problems-E-R Diagrams (1).pdf
C:\Users\Meghana\Desktop\sc\print.zip
C:\Users\Meghana\Desktop\sc\Screenshot (2).png
C:\Users\Meghana\Desktop\sc\SC_CAT1_Security principles.pdf
C:\Users\Meghana\Desktop\sc\SC_CAT1_Vulnerabilities.pdf
C:\Users\Meghana\Desktop\sc\New folder\dir.py

C:\Users\Meghana\Desktop\sc>_
```

```
C:\Users\Meghana\Desktop\sc\Files.txt - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
AllFiles.py x dir.py x alldir.py x files.py x Files.txt x
7 C:\Users\Meghana\Desktop\sc\meghana_resume.docx
8 C:\Users\Meghana\Desktop\sc\New folder\dir.py
9 C:\Users\Meghana\Desktop\sc\Practice Problems-E-R Diagrams (1).pdf
10 C:\Users\Meghana\Desktop\sc\print.zip
11 C:\Users\Meghana\Desktop\sc\Screenshot (2).png
12 C:\Users\Meghana\Desktop\sc\SC_CAT1_Security principles.pdf
13 C:\Users\Meghana\Desktop\sc\SC_CAT1_Vulnerabilities.pdf
14 .....
15 C:\Users\Meghana\Desktop\sc\alldir.py
16 C:\Users\Meghana\Desktop\sc\AllFiles.py
17 C:\Users\Meghana\Desktop\sc\dir.py
18 C:\Users\Meghana\Desktop\sc\E R Models (1).docx
19 C:\Users\Meghana\Desktop\sc\files.py
20 C:\Users\Meghana\Desktop\sc\Files.txt
21 C:\Users\Meghana\Desktop\sc\meghana_resume.docx
22 C:\Users\Meghana\Desktop\sc\Practice Problems-E-R Diagrams (1).pdf
23 C:\Users\Meghana\Desktop\sc\print.zip
24 C:\Users\Meghana\Desktop\sc\Screenshot (2).png
25 C:\Users\Meghana\Desktop\sc\SC_CAT1_Security principles.pdf
26 C:\Users\Meghana\Desktop\sc\SC_CAT1_Vulnerabilities.pdf
27 C:\Users\Meghana\Desktop\sc\New folder\dir.py
28

Line 1, Column 1
Type here to search
```

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



```
Windows PowerShell
PS C:\Users\Meghana> ls

Directory: C:\Users\Meghana

Mode                LastWriteTime         Length Name
----                -
d-----          18-08-2020      13:32         .config
d-----          18-08-2020      13:32         .eclipse
d-----          12-02-2021      11:43         .idlerc
d-----          25-08-2020      19:08         .nbi
d-----          27-08-2020      22:20         .p2
d-----          18-08-2020      13:32         .tooling
d-----          11-02-2021      19:53         .vscode
d-r-----        14-03-2021       00:41       3D Objects
d-----          18-08-2020      12:29         ansel
d-----          13-03-2021      14:58       Cisco Packet Tracer 8.0
d-r-----        14-03-2021       00:41       Contacts
d-r-----        24-03-2021       09:56       Desktop
d-r-----        14-03-2021       00:41       Documents
d-----          25-08-2020      19:15       DocuPrepents
d-r-----        24-03-2021      13:04       Downloads
d-r-----        16-08-2020      20:05       Dropbox
d-----          24-08-2020      13:17       eclipse-workspace
d-r-----        14-03-2021       00:41       Favorites
d-r-----        14-03-2021       00:41       Links
d-r-----        14-03-2021       00:41       Music
dar--l         22-03-2021       09:05       OneDrive
d-----          07-12-2020      13:22         Oops
d-r-----        14-03-2021       00:41       Pictures
d-----          25-01-2021       09:33       Root_19bcn7157
d-r-----        14-03-2021       00:41       Saved Games
d-r-----        14-03-2021       00:41       Searches
d-r-----        24-03-2021       08:56       Videos
-a-----          07-03-2021      17:53       388 .bash_history
-a-----          07-03-2021      17:22       184 .gitconfig
-a-----          13-03-2021      14:53       172 .packettracer
-a-----        24-03-2021       16:09         1 file0.txt
-a-----        24-03-2021       16:09         1 file1.txt
-a-----        24-03-2021       16:09         1 file2.txt
-a-----        24-03-2021       16:09         1 file3.txt
-a-----        12-03-2021       20:12         20 hello.py
-a-----          06-02-2021      11:46       927 netdata.txt
-a-----          13-02-2021      12:39         0 SCHEDULES
-a-----          19-02-2021      20:10       927 types.txt
-a-----          07-03-2021      17:31       210 _netrc

PS C:\Users\Meghana>
```

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

PS C:\Users\Meghana> python
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.
>>> list=['a','b','c','d']
>>>
>>> for i in range(len(list)):
...     open('file%s.txt'%i,'w').write(list[i])
...
1
1
1
>>> ls
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'ls' is not defined
>>>
```