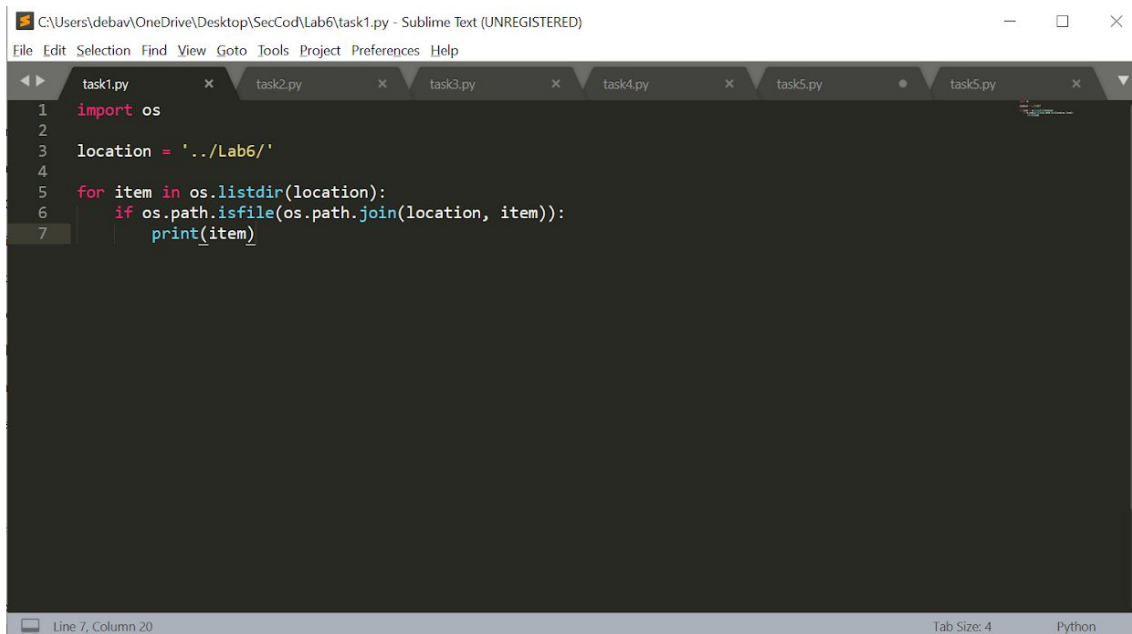**Name** : Debavi Banerjee

Registration Number : 19BCN7014

Slot : L39-40

Subject Code : CSE2010

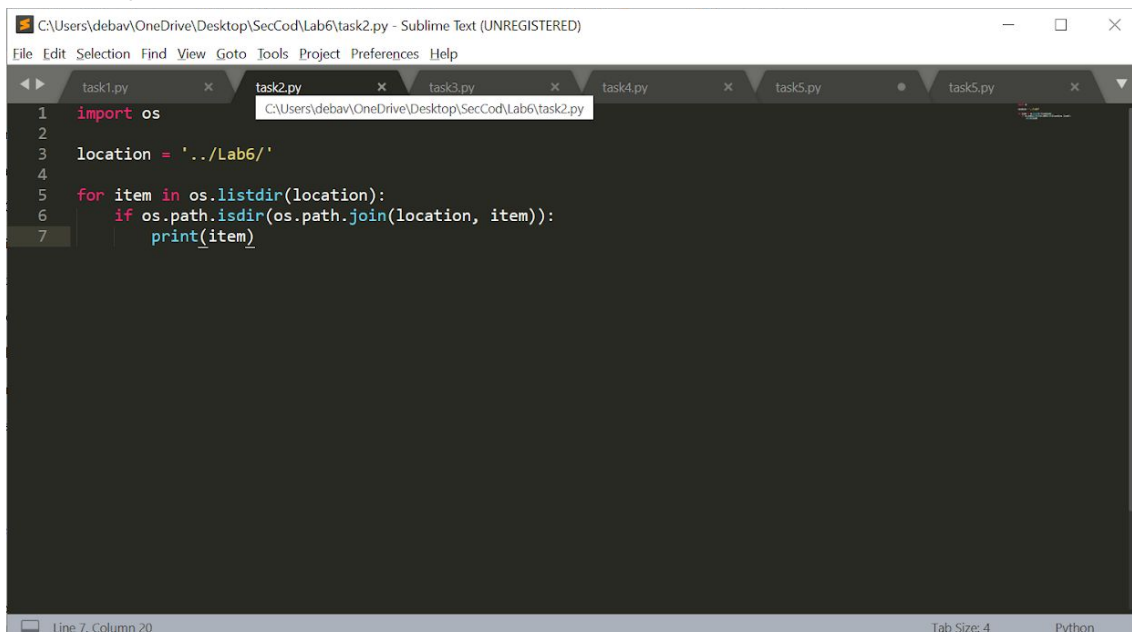## Q1. Write a python script to get all the file names in the current directory

```python
import os

location = '../Lab6/'

for item in os.listdir(location):
    if os.path.isfile(os.path.join(location, item)):
        print(item)
```

Q2. Write a python script to get all the directory names in the current directory

```python
import os

location = '../Lab6/'

for item in os.listdir(location):
    if os.path.isdir(os.path.join(location, item)):
        print(item)
```

Q3. Write a python script to get all the directory and subdirectory names in the current directory
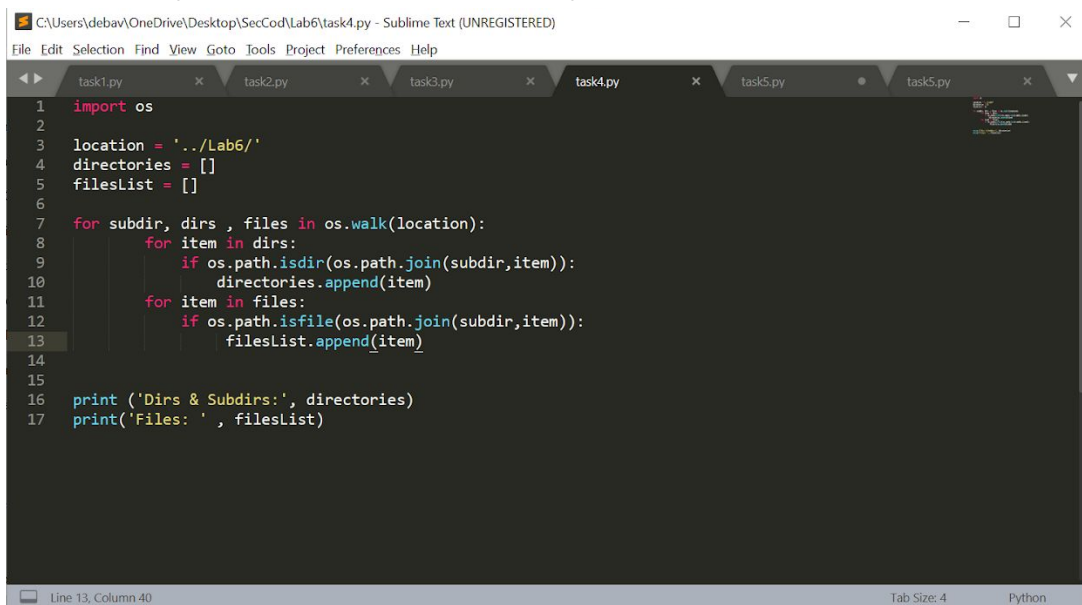
```python
import os

location = '../Lab6/'
directories = []

for subdir, dirs , files in os.walk(location):
    if (len(dirs) !=0):
        for item in dirs:
            directories.append(item)


for dirSubdir in directories:
    print (dirSubdir)
```

Q4. Write a python script to get all the file name, directory and all the subdirectory names (recursively) in the current directory

```python
import os

location = '../Lab6/'
directories = []
filesList = []

for subdir, dirs , files in os.walk(location):
        for item in dirs:
            if os.path.isdir(os.path.join(subdir,item)):
                directories.append(item)
        for item in files:
            if os.path.isfile(os.path.join(subdir,item)):
                filesList.append(item)


print ('Dirs & Subdirs:', directories)
print('Files: ' , filesList)
```

Q5. Write a python script to get all the file name, directory and all the subdirectory names
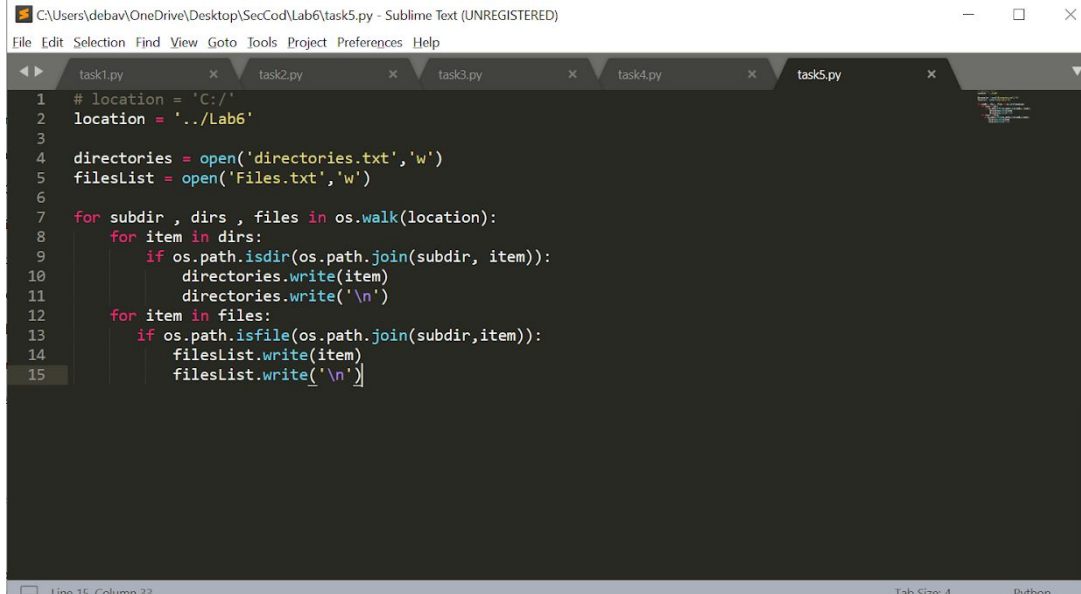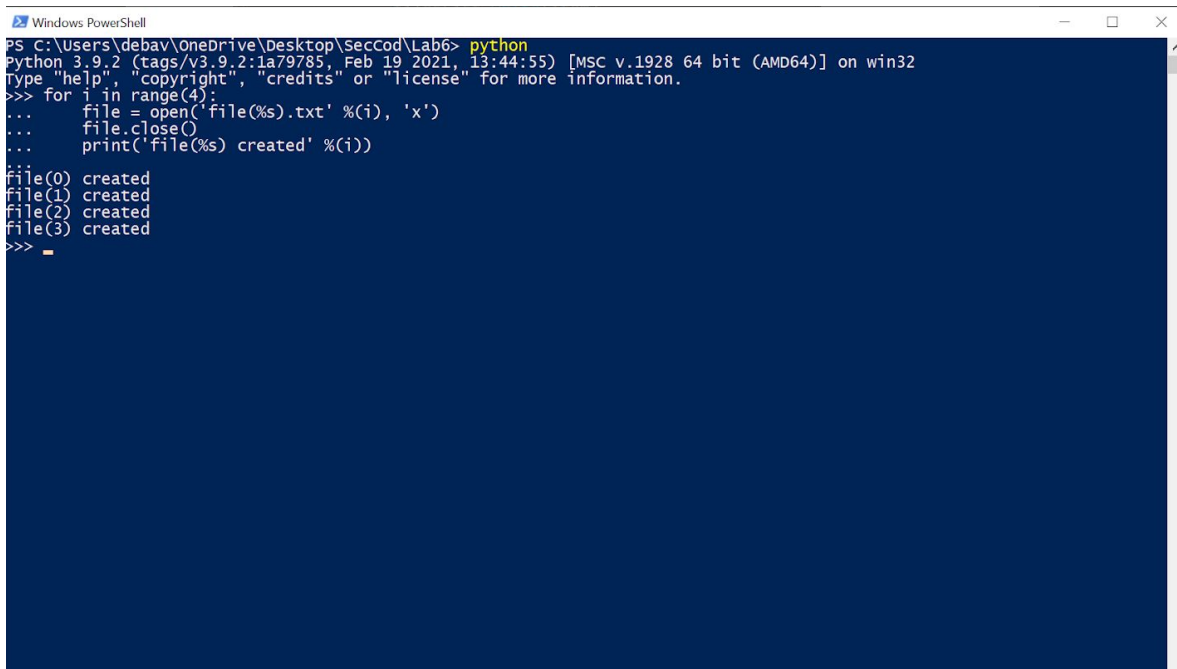(recursively) in the current drive and write it to a text file


```python
# location = 'C:/'
location = '../Lab6'

directories = open('directories.txt','w')
filesList = open('Files.txt','w')

for subdir , dirs , files in os.walk(location):
    for item in dirs:
        if os.path.isdir(os.path.join(subdir, item)):
            directories.write(item)
            directories.write('\n')
    for item in files:
        if os.path.isfile(os.path.join(subdir,item)):
            filesList.write(item)
            filesList.write('\n')
```

Q6. Write a python script which creates four new files in the current directory using PowerShell


```
PS C:\Users\debav\OneDrive\Desktop\SecCod\Lab6> 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.
>>> for i in range(4):
...     file = open('file(%s).txt' %(i), 'x')
...     file.close()
...     print('file(%s) created' %(i))
...
file(0) created
file(1) created
file(2) created
file(3) created
>>>
```