



# Worksheet – 3.3

Student Name: Vivek Kumar UID: 21BCS8129

**Branch:** BE-CSE (LEET) Section/Group: 809/A

Semester: 4th Date of Performance: 11/05/2022

**Subject Name:** Programming in Python Lab **Subject Code:** 20CSP-259

#### 1. Aim/Overview of the practical:

I. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt

II. Write a Python program to create a file where all letters of English alphabet are listed by specified number of letters on each line

- III. Write a Python program to read a random line from a file.
- IV. Write a Python program to count the frequency of words in a file
- V. Write a Python program to copy the contents of a file to another file

#### 2. Task to be done/ Which logistics used:

- I. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt
- II. Write a Python program to create a file where all letters of English alphabet are listed by specified number of letters on each line
- III. Write a Python program to read a random line from a file.
- IV. Write a Python program to count the frequency of words in a file
- V. Write a Python program to copy the contents of a file to another file

## 3. Steps for experiment/practical/Code:

I. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt.

```
import string
import os
if not os.path.exists("letters"):
    os.makedirs("letters")

for letter in string.ascii_uppercase:
    with open(letter + ".txt", "w") as f:
    f.writelines(letter)
```







II. Write a Python program to create a file where all letters of English alphabet are listed by specified number of letters on each line.

```
import string
def letters_file_line(n):
    with open("words1.txt", "w") as f:
    alphabet = string.ascii_uppercase
    letters = [alphabet[i:i + n] + "\n" for i in range(0, len(alphabet), n)]
    f.writelines(letters)
letters_file_line(6)
```

III. Write a Python program to read a random line from a file.

```
import random
def random_line(fname):
    lines = open(fname).read().splitlines()
    return random.choice(lines)
print(random_line('filef1.txt'))
```

IV. Write a Python program to count the frequency of words in a file.

```
from collections import Counter

def word_count(fname):

with open(fname) as f:

return Counter(f.read().split())

print("Number of words in the file :", word_count("filef1.txt"))
```







V. Write a Python program to copy the contents of a file to another file.

```
print("Enter the Name of Source File: ")

sFile = input()

print("Enter the Name of Target File: ")

tFile = input()

fileHandle = open(sFile, "r")

texts = fileHandle.readlines()

fileHandle = open(tFile, "w")

for s in texts:

fileHandle.write(s)

fileHandle.close()

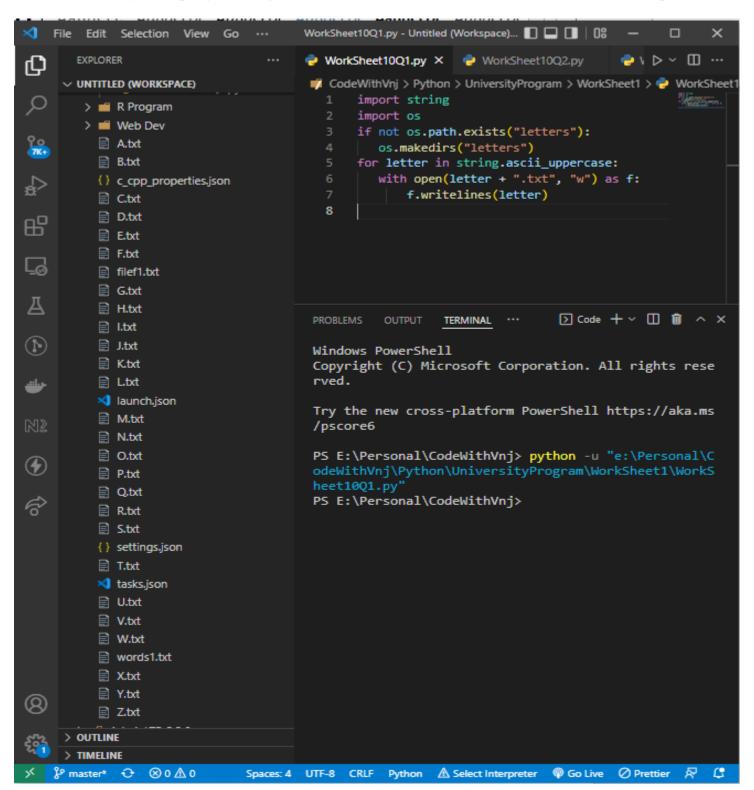
print("\nFile Copied Successfully!")
```





## 4. Result/Output/Writing Summary:

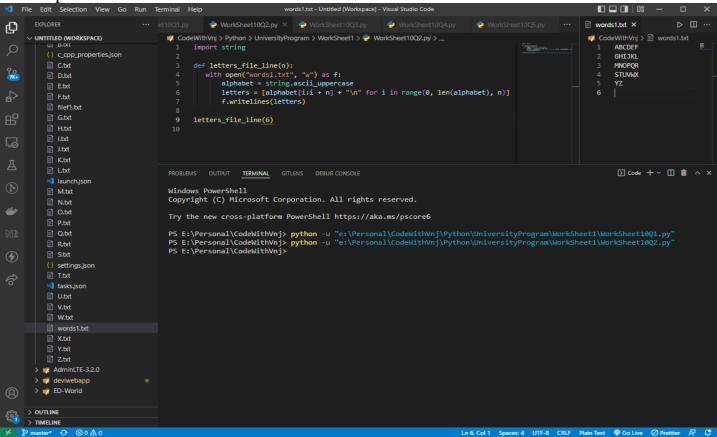
I. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt.



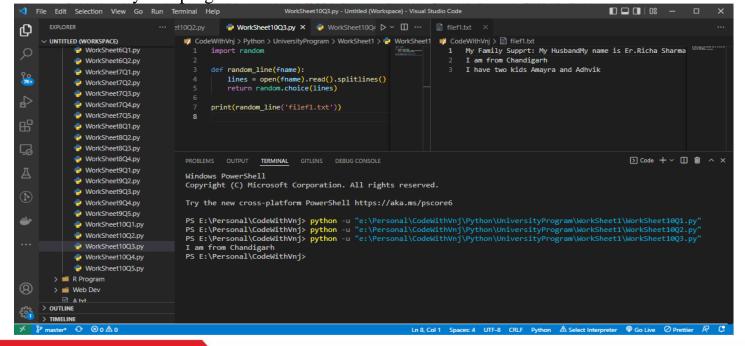




II. Write a Python program to create a file where all letters of English alphabet are listed by specified number of letters on each line.



III. Write a Python program to read a random line from a file.

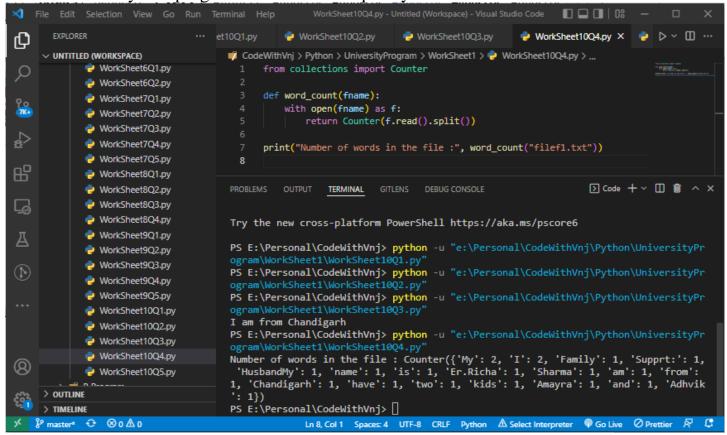






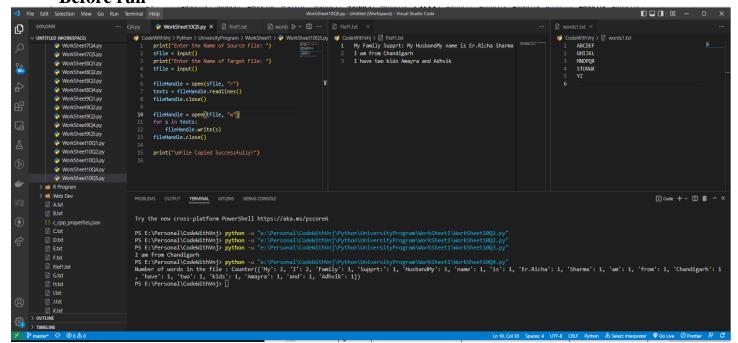


IV. Write a Python program to count the frequency of words in a file.



V. Write a Python program to copy the contents of a file to another file.

#### Before run

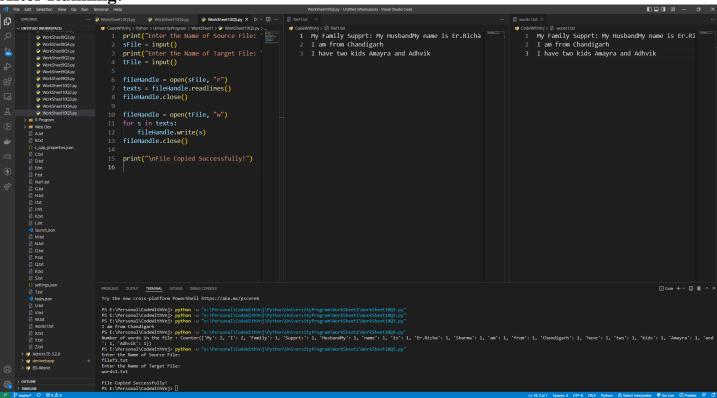








**After Running:** 



# **Learning outcomes (What I have learnt):**

- 1. I have learnt, how to create the and manipulate the files.
- 2. I have learnt how to do all operation with python.

### Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			
4.			

