**Practical No: 21**

**Aim:** Write a program to Count the Number of Words in a Text File

**Course Outcome:** Develop ‘Python’ programs using File Input/outputoperations.

**Requirements: Computer, Python 3.3.34, Vs Code.**

**Theory:**

You can count number of words in a text file in Python by following a sequence of steps which we shall discuss in this tutorial.

In this tutorial, we shall learn how to count number of words in text file, using Python example programs.

Steps to Count Number of Words in Text File

To count the number of words in a text file, follow these steps.

1. Open the file in read mode and handle it in text mode.
2. Read the text using read() function.
3. Split the text using space separator. We assume that words in a sentence are separated by a space character.
4. The length of the split list should equal the number of words in the text file.
5. You can refine the count by cleaning the string prior to splitting or validating the words after splitting.

**Flowchart:**

**Program:**

# Write a program to Count the Number of Words in a Text File

FILE = input("Enter the File name: ")

File1 = open(FILE,'r')

Data = File1.read()

Words = Data.split()

print(FILE,"Contain",len(Words),"Words")

File1.close()

**Output/Result:**

Enter the File name: second.txt

second.txt Contain 20 Words

**Conclusion:** In these practical we have first Taken the filename as input from the user. Then read the file and stored the data in the ‘Data’ variable. To find the number of words we split the words in a list using the split Function. And stored it in the ‘Words’ variable. To get the length of the words list we have used the len() function. Hence, we get the number of words in the file.