EXPERIMENT NO: 7

Character count, word count, line count

Aim

Write a java program that displays the number of characters, lines and words in a text file

Input

A file.

Output - Expected

Number of characters, words and lines

Algorithm

Start

1. Import java util and io packages
2. Initalise $lc = 0$ and $wc = 0$
3. Input file name from user, str
4. Inside try block
5. $f \leftarrow fopen (str)$
6. $n = f.available()$
7. for $i = 0$ till $i < n$
   7.1 $Ch = (char).f.read()$
   7.2 if $(Ch = /n)$
       7.2.1 increment lc
   7.3 else if $(ch = ' ')$
       7.3.1 increment wc

7.4 EndIf

8 End for

9. Display no: of characters = n

10. Display no: of words = wc + lc

11 Display no: of lines = lc

Stop

Result:-

Output is Obtained

Output

Enter file name: abc.fat

No:of lines = 5
No :of words = 9
No: of characters = 31

```java
import java.util.*;
import java.io.*;
class countfile
{
        public static void main(String args[])throws IOException
        {
                int lc=1,wc=0;
                char ch;
                Scanner scr=new Scanner(System.in);
                System.out.print("\nEnter File name: ");
                String str=scr.nextLine();
                FileInputStream f=new FileInputStream(str);
                int n=f.available();
                for(int i=0;i<n;i++)
                {
                        ch=(char)f.read();
                        if(ch=='\n')
                        lc++;
                        else if(ch==' ')
                                wc++;

                }
                System.out.println("\nNumber of lines : "+lc);
                System.out.println("\nNumber of words : "+
(lc+wc));

                System.out.println("\nNumber of characters :
"+n);


        }
}
```