Ex No 7 String Handling

Date :

Aim:

To write a java program to handle a string.

1.Write an application that counts the words in a String entered by a user. Words are separated by any combination of spaces, periods, commas, semicolons, question marks, exclamation points, or dashes.

Algorithm:

Step1: start
Step2: create a public class with main method
Step3: get the string from the user
Step4: By using for loop iterate the elements of the string
Step5: if the element==' ',','.',';','?','!'then increment count and then print the count
Step6: stop.

Program:

```
package exp7;
import java.util.Scanner;
public class string_1st
{
   public static void main(String[] args)
   {
      String str;
      int i,count=1;
      Scanner sc=new Scanner(System.in);
      System.out.println("Enter the string");
      str=sc.nextLine();
      for(i=0;i<str.length();i++)
      {
         if(str.charAt(i)==' '||str.charAt(i)=='.'||str.charAt(i)==','||str.charAt(i)==';'||str.charAt(i)=='?'||str.charAt(i)=='!'||str.charAt(i)=='-')
            count++;

      }
```

```
        System.out.println("Word count is "+count);
    }
}
```

Output:

Enter the string

Object,oriented.programming

Word count is 3

2. Write a Java program to find the second most frequent character in a given string.
Sample Output
The given string is: successes
The second most frequent char in the string is: c
Algorithm:

Step1: start
Step2: create a class string_2nd with second_most_freq method that returns a char
Step3: In second_most_freq method count the occurrence of the each element
Step4: By using the count find most frequent element
Step5: Then compare the count of the elemnts with first frequent element
Step6: display the second most frequent element
Step7: stop.

Program:

```
package exp7;
import java.util.Scanner;
public class string_2nd {
    static char second_most_freq(String s){
        int[] count=new int[256];
        int a;
        for(a=0;a<s.length();a++){
            (count[s.charAt(a)])++;
        }
        int one=0,two=0;
        for(a=0;a<256;a++){
            if(count[a]>count[one]) {
                two = one;
```

```
            one = a;
        }
        else if(count[a]>count[two] && count[a]!=count[one]){
            two=a;
        }
    }
    return (char)two;
  }
  public static void main(String[] args){
    String s;
    Scanner in=new Scanner(System.in);
    System.out.println("enter the string:");
    s= in.next();
    char x=second_most_freq(s);
    if(x!='\0') {
        System.out.println(x);
    }
    else{
        System.out.println("no second most freq character");
    }
  }
}
```

Output:

enter the string:

utility

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Result :

Thus, the program for string handling has been written, executed and the output is verified.