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**Practical 01**

**AIM:** Design a program to create a machine which counts number of 1’s and 0’s in the String.

**Code:**

import java.util.Scanner;

import java.util.ArrayList;

public class Design{

String str;

char b2;

int len;

int comp=0;

ArrayList aL=new ArrayList();

ArrayList bL=new ArrayList();

void initial()

{

System.out.println("Input String of 1 and 0\n");

Scanner obj=new Scanner(System.in);

str=obj.nextLine();

len=str.length();

if(len>0)

{

for(int i=0;i<str.length();i++)

{

char bl=str.charAt(i);

if(bl=='1'||bl=='0')

{

}

else

{

System.out.println("Please provide valid string");

System.exit(0);

}

}

first();

}

}

void first()

{

if(comp<len)

{

char al=str.charAt(comp);

if(al=='1')

{

comp++;

aL.add("A");

first();

}

else

{

comp++;

bL.add("B");

first();

}

}

else

{

System.out.println("Total count of 1 in the String:"+aL.size());

System.out.println("\nTotal count of 0 in the String:"+bL.size());

}

}

public static void main(String[]args)

{

Design dl=new Design();

dl.initial();

}

}

**Output:**

