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Practical No.1

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 strings 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 b1=str.charAt(i);
                if(b1=='1' || b1=='0')
                {
                }
            }
        }
    }
}
```

```

else
{
    System.out.println("please provide valid
string");
    System.exit(0);
}}

first();
}
}
void first()
{
    if(comp<len)
    {
        char a1=str.charAt(comp);
        if (a1=='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("\n Total count of 0 in the string: "+bL.size());
    }
}

public static void main(String[]args)
{
    Design d1=new Design();
    d1.initial();
}}
```

OUTPUT:

```
C:\Users\ADMIN\Documents\Custom Office Templates>java Design
Input strings of 1 and 0
0
Total count of 1 in the string: 0
Total count of 0 in the string: 1
```