1.Read a string, and count the number of alphabets, digits, symbols, space characters, words present in a string.
In the same program , accept a string and check whether it is present in the main string or not.

Input : Java18 is a robust language.

Count : 28

Alphabets : ?

Digits : ?

Symbols : ?

Words : ?

Enter a substring : robust

S

```java
package Tsgol.com.patterns;
public class Countstring{
        public static void main(String[] args) {

                String s="Java18 is a robust language";
                String s1="Robust";
                int count=0,digits=0,character=0,space=0,symbols=0,words=0;
                for(int i=0;i<s.length();i++)
                {
                if(Character.isDigit(s.charAt(i)))
                {
                digits++;
                }
                else if(Character.isLetter(s.charAt(i)))
                {
                        character++;
                }
                else if(s.charAt(i)==' ')
                {
                        space++;
                }
                else
```

```
        {
                symbols++;
        }
        words=space+1;


        }
        System.out.println("Number of digits in the given string :" + digits);
        System.out.println("Number of letters in the given string :" + character);
        System.out.println("Number of spaces in the given string :" + space);
        System.out.println("Number of symbols in the given string :" + symbols);
        System.out.println("Number of words in the given string :" + words);
        System.out.println(s.contains ( s1 ) );
    }
    }
```

Output:

```
Number of digits in the given string :2
Number of letters in the given string :21
Number of spaces in the given string :4
Number of symbols in the given string :0
Number of words in the given string :5
false
```

2.Read userid, password and compare with predefined string constants. (use equal Ignore case method)
Eg: uid:AF0123 PWD:stu@123

```
package Tsgol.com;
import java.util.Scanner;
    public class unamepwd {
            public static void main(String[] args)
        {
        Scanner sc=new Scanner(System.in);
        String id,pw,userid,pwd;
        userid="AF0123";
        pwd="stu@123";
        System.out.println("Enter your userid");
```

```java
        id=sc.next();
            System.out.println("Enter your password");
            pw=sc.next();
            if(id.equalsIgnoreCase(userid)&&pw.equalsIgnoreCase(pwd))
                System.out.println(" valid userid and password");
            else
                System.out.println(" Invalid userid or password");
    }
    }
```

Output:

```
Enter your userid
AF0123
Enter your password
stu@123
valid userid and password
```