

Q1. 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

Searching substring is present in your string

```
package Strings;
import java.util.*;
public class String_Manipulation {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("enter a String");

        String str = sc.nextLine();

        char ch;
        int alpha, digit, symbol, space, word;

        alpha=digit=symbol=space=word=0;

        for(int i=0;i<str.length();i++)
        {
            ch=str.charAt(i);
```

```

        if(Character.isAlphabetic(ch))
            alpha++;
        else if(Character.isDigit(ch))
            digit++;
        else if(Character.isWhitespace(ch))
            space++;
        else
            symbol++;
    }

    word=space+1;

System.out.println("No.of alphabets" + alpha);
System.out.println("No.of digits" + digit);
System.out.println("No.of spaces" + space);
System.out.println("No.of symbols" + symbol);
System.out.println("No.of words" + word);

System.out.println("Enter a substring");

String str1=sc.nextLine();

    if(str.contains(str1))
        System.out.println("Substring present
in main string");
    else
        System.out.println("Substring is not
present in main string");

}

}

```

Output:

```

enter a String
java18 is a robust language.
No.of alphabets 21
No.of digits 2

```

No.of spaces 4
No.of symbols 1
No.of words 5
Enter a substring
language
Substring present in main string

(or)

enter a String
java18 is a robust language.
No.of alphabets 21
No.of digits 2
No.of spaces 4
No.of symbols 1
No.of words 5
Enter a substring
jav18
Substring is not present in main string

Q2. Read userid, password and compare with predefined string constants. (use equal Ignore case method)

Eg: uid:AF0123 PWD:stu@123

```
package Strings;
import java.util.*;
public class Login {

    public static void main(String[] args) {

        String uid, pwd;

        String uname= "AF0311774";
        String pword= "ram@123";

        Scanner key = new Scanner(System.in);

        System.out.println("Enter username ");
        uid = key.next();

        System.out.println("Enter Password ");
        pwd = key.next();

        if(uid.equalsIgnoreCase(uname) &
pwd.equalsIgnoreCase(pword))
            System.out.println("valid username and
password");
        else
            System.out.println("Invalid username
and password!!!");

    }

}
```

Output:

Enter username

AF0311774

Enter Password

ram@123

valid username and password

(or)

Enter username

AF0311774

Enter Password

ram123

Invalid username and password!!!