LAB – 2

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.

```java
package forloops;

public class Extract_Char {

public static void main(String[] args) {

String s="Java18 is a robust language@!!!!!";

String s1="robust";

int digits=0,letters=0,spaces=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)))

{

letters++;

}

else if (s.charAt(i) == ' ' )

{

spaces++;
```

```java
}

else

{

symbols++;

}

words=spaces+1;

}

System.out.println("The number of charcters in the given
string is:" + s.length());

System.out.println("The number of digits in the given string
is:" + digits);

System.out.println("The number of letters in the given string
is:" + letters);

System.out.println("The number of words in the given string
is:" + spaces);

System.out.println("The number of symbols in the given string
is:" + symbols);

System.out.println("The number of words in the given string
is:" + words);

System.out.println(s.contains(s1));

}

}
```

Output :

```
The number of charcters in the given string is:33

The number of digits in the given string is:2

The number of letters in the given string is:21

The number of words in the given string is:4

The number of symbols in the given string is:6
```

```
The number of words in the given string is:5

true
```

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

```java
package forloops;

import java.util.*;

public class User {

public static void main(String[] args) {

String userid,password;

Scanner obj = new Scanner(System.in);

System.out.println("Enter userid and password");

userid=obj.next();

password=obj.next();

String uid="AP1012";

String paword="App@10";

System.out.println(userid);

System.out.println(password);

if(userid.equalsIgnoreCase(uid) &
password.equalsIgnoreCase(paword)) {

System.out.println("Login succesful");

}else {

System.out.println("Login failed");

}
```

```
    }

}
```

Output :

```
Enter userid and password

AP1012

APP@10

AP1012

APP@10

Login succesful
```