#### Practical No. 03

### Aim: Illustrate the use of various string methods

# A. Write a Java program to demonstrate the use of String methods Program:

```
//DemoString.java
class DemoString
 public static void main(String args[])
 System.out.println("\n------);
 char ch[]={'H','e','l','l','o',' ','T','h','e','r','e',' ','(','(','o','V','o',')',')'};
 String s1="Hello There (( o V o )) ";//First object
 String s2="Hello There (( o V o )) ";//Reference to first object
 String s3=new String("Hello There (( o V o )) ");//Second object
 String s4=new String(ch);//converting ch array to string
 System.out.println(s1);
 System.out.println(s2);
 System.out.println(s3);
 System.out.println(s4);
 System.out.println("\n-- Formatted String ---");
 String name="Aarti";
 String sf1=String.format("name is %s",name);
 String sf2=String.format("value is %f",56.45675);
 String sf3=String.format("value is %20.12f",78.56768); //returns 12 char fractional part
filling with 0
```

```
System.out.println(sf2);
 System.out.println(sf3);
 String str1 = String.format("%d", 101); // Integer value
 String str2 = String.format("%s", "Amar Singh"); // String value
 String str3 = String.format("%f", 101.00); // Float value
 String str4 = String.format("%x", 105); // Hexadecimal value
 String str5 = String.format("%c", 'K');
                                             // Char value
 System.out.println(str1);
 System.out.println(str2);
 System.out.println(str3);
 System.out.println(str4);
 System.out.println(str5);
//integer formatting
System.out.println("\n ----integer formatting----");
String si1 = String.format("%d", 101);
// Specifying length of integer
String si2 = String.format("|\%10d|", 101);
// Left-justifying within the specified width
String si3 = String.format("|\%-10d|", 101);
String si4 = String.format("|\% d|", 101);
// Filling with zeroes
String si5 = String.format("|%010d|", 101);
```

System.out.println(sf1);

```
System.out.println(si1);
System.out.println(si2);
System.out.println(si3);
System.out.println(si4);
System.out.println(si5);
     System.out.println("-----Substring Demo-----");
     String s11="Online Lectures :( /:)";
     String substr1 = s11.substring(0); // Starts with 0 and goes to end
     System.out.println(substr1);
     String substr2 = s11.substring(16,18); // Starts from 16 and goes to 18
     System.out.println(substr2);
 // String substr3 = s11.substring(16,30); // Returns Exception
System.out.println("string length is: "+substr1.length());
System.out.println("string contains:) "+s11.contains(":)"));
System.out.println("Character at index 7 is: "+s11.charAt(7));
String se1="Java";
String se2="java";
String se3="Java";
System.out.println("----Case Sensetive----");
System.out.println(se1.equals(se2));
System.out.println(se1.equals(se3));
System.out.println("----Case InSensetive----");
System.out.println(se1.equalsIgnoreCase(se2));
System.out.println(se1.equalsIgnoreCase(se3));
```

```
String fn="Aarti";
String ln="Pardeshi";
System.out.println(fn.concat(ln));
System.out.println("----Replace----");
System.out.println(fn.replace("A","Bh"));
System.out.println("Index of P in Last name is "+ln.indexOf("P"));
System.out.println("Surname in lower case: "+ln.toLowerCase());
System.out.println("Surname in upper case: "+ln.toUpperCase());
                 Are you feeling tired??
String strim1="
System.out.println("Before Trim "+strim1);
System.out.println("After Trim "+strim1.trim());
}//end main
}//end class
Output:
C:\Program Files\Java\jdk1.7.0 51\bin>javac DemoString.java
C:\Program Files\Java\jdk1.7.0 51\bin>java DemoString
-----Demo of String class-----
Hello There (( o V o ))
Hello There (( o V o ))
Hello There (( o V o ))
Hello There ((oVo))
-- Formatted String ---
name is Aarti
value is 56.456750
```

System.out.println("----Concat----");

```
78.567680000000
value is
101
Amar Singh
101.000000
69
K
----integer formatting-----
101
    101
|101
| 101|
|000000101|
----Substring Demo-----
Online Lectures :( /:)
:(
string length is: 24
string contains:) true
Character at index 7 is: L
----Case Sensetive----
false
true
----Case InSensetive----
true
true
----Concat----
AartiPardeshi
----Replace----
Bharti
Index of P in Last name is 0
```

```
Surname in lower case: pardeshi
Surname in upper case: PARDESHI
Before Trim Are you feeling tired??
After Trim Are you feeling tired??
```

## B. Write a Java program to accept n strings and sort names in ascending order.

### Program:

```
package sortnames;
import java.io.DataInputStream;
import java.io.IOException;
public class SortNames {
    public static void main(String[] args) throws IOException {
     DataInputStream dis = new DataInputStream(System.in);
     int n;
     String temp;
     System.out.print("Enter number of names you want to enter: ");
     n = Integer.parseInt(dis.readLine());
     String names[] = new String[n];
     System.out.println("Enter" + n + "names");
     for(int i=0;i< n;i++)
        names[i] = dis.readLine();
     for(int i=0;i< n;i++)
        for(int j=i+1; j< n; j++)
          if(names[i].compareTo(names[j])>=0)
```

```
temp = names[i];
            names[i] = names[j];
            names[j] = temp;
       }
     System.out.print("Names in sorted Order=\n");
     for(int i=0;i<=n-1;i++)
     {
       System.out.println(names[i]);
  }
}
Output:
run:
Enter number of names you want to enter: 4
Enter4names
Rohan
Ankita
Sneha
Mayuri
Names in sorted Order=
Ankita
Mayuri
Rohan
Sneha
BUILD SUCCESSFUL (total time: 40 seconds)
```