# Java String, StringBuffer and StringBuilder Methods and Examples

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# Java String class methods

String Str=new String("Hello")

Method name	Syntax to use	Description
1.length()	Str.length()	Returns length of String.
2.indexOf()	indexOf(Str)	Returns the index value of 1 <sup>st</sup> character in given string.
3.charAt()	Str.charAt(index)	Returns the character at given index.
4.replace()	Str.replace(old String,new String)	It replaces old string with new string.
5.toLowerCase()	Str.toLowerCase()	Everything will be converted into lowercase.
6.toUpperCase()	Str.toUpperCase()	Everything will be converted into uppercase.
7.compareTo()	Str.compareTo(str)	Compares 2 strings

## Continue...

Method name	Syntax to use	Description
8.trim()	Str.trim()	Remove all the white spaces which appear before and after the string.
9.concat()	Str2=Str.concat("string")	It is used to concatenate 2 strings.

### Example Programs

```
3.charAt() Method:
1.length() Method:
                                              2.indexOf() Method:
                                                                                              public class Stringoperation3
public class Stringoperation1
                                              public class Stringoperation2
                                                                                                    public static void main(String args[])
    public static void main(String args[])
                                                   public static void main(String args[])
                                                                                                       String s="Madhu";
       String s="Madhu";
                                                       String s="Madhu";
                                                                                                       System.out.println(s.charAt(2));//d
       System.out.println(s.length());//5
                                                       System.out.println(s.indexOf(a));//1
4.replace() Method:
                                                                           5.toLowerCase() Method:
public class Stringoperation4
                                                                           public class Stringoperation5
     public static void main(String args[])
                                                                                 public static void main(String args[])
        String s=new String("santosh is friend of satya");
                                                                                    String s="Madhu";
        System.out.println(s.replace("santosh","madhu"));//madhu is
                                                                                    System.out.println(s.toLowerCase());//madhu
        friend of satya
```

### Continue...

```
6.toUpperCase() Method:
public class Stringoperation6
     public static void main(String args[])
        String s="Madhu";
        System.out.println(s.toUpperCase());//MADHU
8.trim() Method:
public class Stringoperation8
      public static void main(String args[])
         String s=" Madhu ";
         System.out.println(s.trim());//Madhu
```

```
7.compareTo() Method:
public class Stringoperation7
     public static void main(String args[])
        String s="Madhu";
        System.out.println(s.compareTo(madhu));//-32
9.concat() Method:
public class Stringoperation9
     public static void main(String args[])
        String s=new String("Madhu");
        String s1=s.concat("Satya");
        System.out.println(s1);//MadhuSatya
```

### Program for String class methods

```
Class StringDemo
                                                                     Output:
   public static void main(String args[])
                                                                      Hello
      String Str=new String(" Hello");
      System.out.println(Str);
      System.out.println(Str.length());
                                                                      HELLO
      System.out.println(Str.indexOf("H");
                                                                      hello
      System.out.println(Str.toUpperCase());
      System.out.println(Str.toLowerCase());
                                                                     Hello
      System.out.println(Str.trim());
                                                                     Character at=1
      System.out.println("Character at="+Str.charAt(4));
                                                                     -72
      System.out.println(Str.compareTo("hello");
                                                                      Hello welcome
      Str1=(Str.concat("welcome"));
      System.out.println(Str1);
```

### Java StringBuffer class methods

Method name	Syntax to use	Description
append()	Str.append(String)	append() method concatenates the given argument with this String.
insert()	Str.insert(index,String)	insert() method inserts the given String with this string at the given position.
delete()	Str.delete(Start_index,End_index)	delete() method deletes the String from the specified beginIndex to endIndex.
replace()	Str.replace(Start_index,End_index,Str ing)	replace() method replaces the given String from the specified beginIndex and endIndex.
reverse()	Str.reverse()	reverse() method reverses the current String.
length()	Str.length()	Returns length of string.

## Continue...

Method name	Syntax to use	Description
subString()	Str.subString(index)	Returns the string from that given index num to end of string.
subSequence()	Str.subSequence(Start_index,End_in dex)	Returns the String between the given start and end index.
charAt()	Str.charAt(index)	Returns the character at given index.
indexOf()	indexOf(Str)	Returns the index value of 1 <sup>st</sup> character in given string.

### Program for StringBuffer methods

```
Class StringBufferDemo
   public static void main(String args[])
     StringBuffer Str=new StringBuffer("welcome");
     System.out.println(Str);
     System.out.println(Str.append(" to java"));
     System.out.println(Str.insert(4,"How"));
     System.out.println(Str.delete(4,7));
     System.out.println(Str.reverse());
     System.out.println(Str.length());
     System.out.println(Str.indexOf("welcome"));
     System.out.println(Str.reverse());
     System.out.println(Str.indexOf("welcome"));
     System.out.println(Str.charAt(8));
     System.out.println(Str.substring(8));
     System.out.println(Str);
     System.out.println(Str.subSequence(11,15));
     System.out.println(Str);
```

### **Output:**

```
welcome
welcome to java
welcHowome to java
welcome to java
avaj ot emoclew
15
welcome to java
to java
welcome to java
java
welcome to java
```

### Java StringBuilder class methods

Method name	Syntax to use	Description
append()	Str.append(String)	append() method concatenates the given argument with this String.
insert()	Str.insert(index,String)	insert() method inserts the given String with this string at the given position.
replace()	Str.replace(Start_index,End_index,String)	replace() method replaces the given String from the specified beginIndex and endIndex.
delete()	Str.delete(Start_index,End_index)	delete() method deletes the String from the specified beginIndex to endIndex.
reverse()	Str.reverse()	reverse() method reverses the current String.
capacity()	Str.capacity()	Returns the current capacity

### Program for StringBuilder methods

```
Class StringBuilderDemo
   public static void main(String args[])
       StringBuilder Str=new StringBuilder("hello");
                                                                  Output:
       System.out.println(Str);
                                                                  hello
       System.out.println(Str.append(" madhu"));
                                                                  hello madhu
       System.out.println(Str.delete(0,5));
                                                                   madhu
       System.out.println(Str.insert(0,"how r u"));
                                                                  how r u madhu
       System.out.println(Str.reverse());
       System.out.println(Str.reverse());
                                                                  uhdam u r who
       System.out.println(Str.replace(0,7,"hi"));
                                                                  how r u madhu
       System.out.println(Str.capacity());
                                                                  hi madhu
                                                                  21
```