String Concatenation in Java

In java, string concatenation forms a new string *that is* the combination of multiple strings. There are two ways to concat string in java:

1. By + (string concatenation) operator
2. By concat() method

1) String Concatenation by + (string concatenation) operator

Java string concatenation operator (+) is used to add strings. For Example:

1. **class** TestStringConcatenation1{
2. **public** **static** **void** main(String args[]){
3. String s="Sachin"+" Tendulkar";
4. System.out.println(s);//Sachin Tendulkar
5. }
6. }

[**Test it Now**](http://www.javatpoint.com/opr/test.jsp?filename=TestStringConcatenation1)

Output:Sachin Tendulkar

The **Java compiler transforms** above code to this:

1. String s=(**new** StringBuilder()).append("Sachin").append(" Tendulkar).toString();

In java, String concatenation is implemented through the StringBuilder (or StringBuffer) class and its append method. String concatenation operator produces a new string by appending the second operand onto the end of the first operand. The string concatenation operator can concat not only string but primitive values also. For Example:

1. **class** TestStringConcatenation2{
2. **public** **static** **void** main(String args[]){
3. String s=50+30+"Sachin"+40+40;
4. System.out.println(s);//80Sachin4040
5. }
6. }

**[Test it Now](http://www.javatpoint.com/opr/test.jsp?filename=TestStringConcatenation2" \t "_blank)**

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Note: After a string literal, all the + will be treated as string concatenation operator.

2) String Concatenation by concat() method

The String concat() method concatenates the specified string to the end of current string. Syntax:

1. **public** String concat(String another)

Let's see the example of String concat() method.

1. **class** TestStringConcatenation3{
2. **public** **static** **void** main(String args[]){
3. String s1="Sachin ";
4. String s2="Tendulkar";
5. String s3=s1.concat(s2);
6. System.out.println(s3);//Sachin Tendulkar
7. }
8. }

**[Test it Now](http://www.javatpoint.com/opr/test.jsp?filename=TestStringConcatenation3" \t "_blank)**

Sachin Tendulkar

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