

## Java String tokenizer

In Java, StringTokenizer is used to break a string into tokens based on provided delimiter. Delimiter can be specified either at the time of object creation or on a per-token basis.

Its object internally maintains a current position within the string to be tokenized. It is located into java.util package.

In string, tokenizer objects are maintained internally and returns a token of a substring from the given string.

Note: StringTokenizer is a deprecated class and available only for compatibility reasons.

### Following are the constructors in string tokenizer

1. StringTokenizer(String str)
2. StringTokenizer(String str, String delim)
3. StringTokenizer(String str, String delim, boolean returnValue)

### Following are the methods in string tokenizer

1. Boolean hasMoreTokens()
2. String nextToken()
3. String nextToken(String delim)
4. Boolean hasMoreElements() // same as hasMoreTokens()
5. Object nextElement() // same as nextToken()
6. int countTokens()

**Example1:**

In this example, we are using StringTokenizer to break string into tokens based on space.

```
import java.util.StringTokenizer;

public class TokenDemo1
{
    public static void main(String args[])
    {
        StringTokenizerobj = new StringTokenizer("Welcome to Chitkara","");

        while (obj.hasMoreTokens())
        {
            System.out.println(obj.nextToken());
        }
    }
}
```

Output

Welcome

to

Chitkara

### Example2:

Let's take another example to understand tokenizer, here we are breaking string into tokens based on the colon (:) delimiter.

```
import java.util.*;

public class TokenDemo2{

    public static void main(String args[])
    {

        String a= " : ";
        String b= "Welcome : to : Chitkara : . : How : are : You : ?";
        StringTokenizer c = new StringTokenizer(b, a);
        int count1 = c.countTokens();
        for (int i = 0; i<count1; i++)

            System.out.println("token [" + i + "] : " + c.nextToken());

    }
}
```

token [0] : Welcome

token [1] : to

token [2] : Chitkara

token [3] : .

token [4] : How

token [5] : are

token [6] : You

token [7] : ?