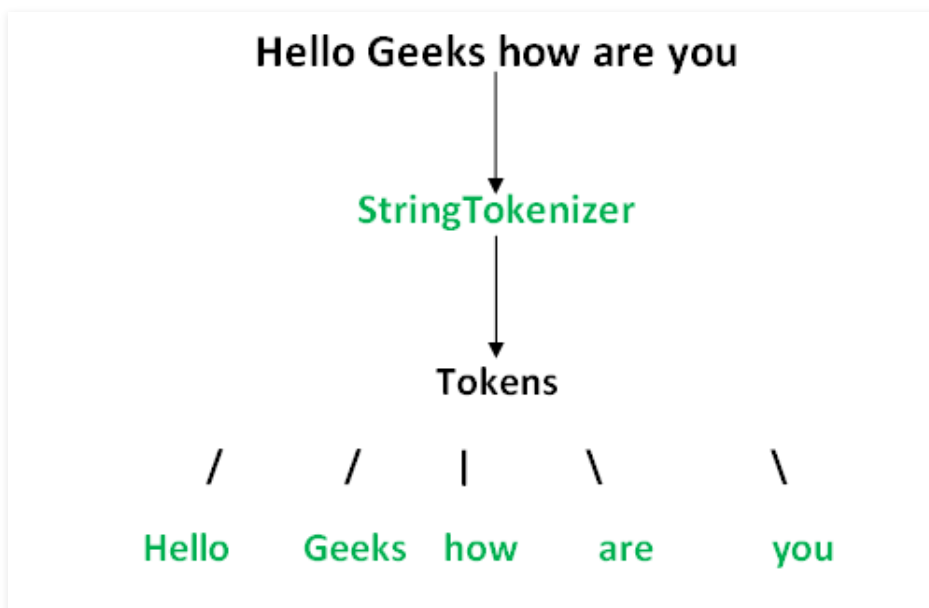


# StringTokenizer Class in Java

Difficulty Level : Easy Last Updated : 09 Dec, 2021

StringTokenizer class in Java is used to break a string into tokens. A StringTokenizer object internally maintains a current position within the string to be tokenized. Some operations advance this current position past the characters processed. A token is returned by taking a substring of the string that was used to create the StringTokenizer object.

## Illustration:



**Constructors of StringTokenizer:** Let us consider 'str' is the string to be tokenized

1. **StringTokenizer(String str):** default delimiters like newline, space, tab, carriage return, and form feed.
2. **StringTokenizer(String str, String delim):** delim is a set of delimiters that are used to tokenize the given string.
3. **StringTokenizer(String str, String delim, boolean flag):** The first two parameters have the same meaning wherein The flag serves the following purpose.

**3.1:** If the flag is false, delimiter characters serve to separate tokens

## Example:

**Input :** if string --> "hello geeks" and Delimiter is " ", then

**Output:** tokens are "hello" and "geeks".

**3.2:** If the flag is true, delimiter characters are considered to be tokens.

### Example:

**Input :** String --> is "hello geeks" and Delimiter is " ", then

**Output:** Tokens --> "hello", " " and "geeks".

## Methods Of StringTokenizer Class

Method	Action Performed
<u>countTokens()</u>	Returns the total number of tokens present
<u>hasMoreToken()</u>	Tests if tokens are present for the StringTokenizer's string
<u>nextElement()</u>	Returns an Object rather than String
<u>hasMoreElements()</u>	Returns the same value as hasMoreToken
<u>nextToken()</u>	Returns the next token from the given StringTokenizer.

### Implementation:

---

```
// Java Program to Illustrate StringTokenizer Class

// Importing required classes
import java.util.*;

// Main class
public class GFG {

    // Main driver method
    public static void main(String args[])
    {

        // Constructor 1
        System.out.println("Using Constructor 1 - ");

        // Creating object of class inside main() method
        StringTokenizer st1 = new StringTokenizer(
```

```
"Hello Geeks How are you", " ");

// Condition holds true till there is single token
// remaining using hasMoreTokens() method
while (st1.hasMoreTokens())

    // Getting next tokens
    System.out.println(st1.nextToken());

// Constructor 2
System.out.println("Using Constructor 2 - ");

// Again creating object of class inside main()
// method
StringTokenizer st2 = new StringTokenizer(
    "JAVA : Code : String", " :");

// If tokens are present
while (st2.hasMoreTokens())

    // Print all tokens
    System.out.println(st2.nextToken());

// Constructor 3
System.out.println("Using Constructor 3 - ");

// Again creating object of class inside main()
// method
StringTokenizer st3 = new StringTokenizer(
    "JAVA : Code : String", " :", true);

while (st3.hasMoreTokens())
    System.out.println(st3.nextToken());
}
}
```

## Output

```
Using Constructor 1 -
Hello
Geeks
How
are
you
Using Constructor 2 -
JAVA
Code
```

String

Using Constructor 3 -

JAVA

:

Code

:

String

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