Spring framework trimWhiteSpace(..) method

Previously we saw isEmpty(), hasLength(), hasText(), containsWhiteSpace() methods of StringUtils class of Spring Framework.

In this post we will see the method trimWhiteSpace(..) which is used to trim leading and trailing white space from the string.

Below is the code take from StringUtils class of Spring Framework. I have also commented the code so it will be easier to understand it.

**public** **static** String trimWhitespace(String str) {

/\*\*

\* If input string is null or its size if 0

\* return it.

\* \*/

**if** (!hasLength(str)) {

**return** str;

}

/\*\*

\* Define a StringBuilder with specified String as

\* parameter.

\* \*/

StringBuilder sb = **new** StringBuilder(str);

/\*\*

\* If the length of StringBuilder is greater than 0 and

\* first character is white space

\* then delete the first character.

\* \*/

**while** (sb.length() > 0 && Character.*isWhitespace*(sb.charAt(0))) {

sb.deleteCharAt(0);

}

/\*\*

\* If the length of StringBuilder is greater than 0 and

\* last character is white space

\* then delete the last character.

\* \*/

**while** (sb.length() > 0 && Character.*isWhitespace*(sb.charAt(sb.length() - 1))) {

sb.deleteCharAt(sb.length() - 1);

}

/\*\*Convert StringBuilder to String and return it.\*/

**return** sb.toString();

}

Below is the driver class that use trimWhiteSpace(String str) method.

**package** stringutils;

**import** org.springframework.util.StringUtils;

**public** **class** SpringTrimWhiteSpaceDemo {

**public** **static** String trimWhiteSpacesDemo(String str){

String s=StringUtils.*trimWhitespace*(str);

**return** s;

}

}

Now we will design few test cases around it and test with expected output.

|  |  |
| --- | --- |
| **Input** | **Output** |
| null | null |
| " java" | "java" |
| "java " | "java" |
| " java " | "java" |
| "java" | "java" |
| "" | "" |
| " " | "" |

Below is the code for the test cases.

**package** stringutils;

**import** junit.framework.Assert;

**import** org.junit.Test;

**public** **class** SpringTrimWhiteSpaceDemoTest {

String NULL=**null**;

String outputNull=**null**;

String name1 = " java";

String outputName1 = "java";

String name2 = "java ";

String outputName2 = "java";

String name3 = " java ";

String outputName3 = "java";

String name4 = "java";

String outputName4 = "java";

String name5 = "";

String outputName5 = "";

String name6 = " ";

String outputName6 = "";

@Test

**public** **void** testForNull() {

Assert.*assertNull*(SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(NULL));

}

@Test

**public** **void** testForLeadingWhiteSpace() {

Assert.*assertEquals*(outputName1, SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(name1));

}

@Test

**public** **void** testForTrailingWhiteSpace() {

Assert.*assertEquals*(outputName2, SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(name2));

}

@Test

**public** **void** testForLeadingAndTrailingWhiteSpace() {

Assert.*assertEquals*(outputName3, SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(name3));

}

@Test

**public** **void** testForNoWhiteSpace() {

Assert.*assertEquals*(outputName4, SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(name4));

}

@Test

**public** **void** testForEmptyString() {

Assert.*assertEquals*(outputName5, SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(name5));

}

@Test

**public** **void** testForAllWhiteSpace() {

Assert.*assertEquals*(outputName6, SpringTrimWhiteSpaceDemo.*trimWhiteSpacesDemo*(name6));

}

}

That’s all on trimWhiteSpace(String str) method.

Navigate to [String Interview Questions](http://data-structure-learning.blogspot.com/p/string.html) or [Main Page](http://data-structure-learning.blogspot.com/p/main-page.html) to read more.