Spring Framework StringUtils class trimLeadingWhiteSpace(..) method

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

You can find entire list here.

In this post we will see the method trimLeadingWhiteSpace(..) which is used to trim only the leading whitespace 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.

/\*\*

\* This method is used to trim all the leading whitespace from String.

\* \*/

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

/\*\*

\* First, check for the length.

\* If input string is null or length == 0 then

\* return the str.

\* \*/

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

**return** str;

}

/\*\*

\* Fill the StringBuilder with the input String.

\* \*/

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

/\*\*

\* StringBuilder is mutable sequence of characters.

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

\* is first character is whitespace then delete that character.

\*

\* using deleteCharAt(int index) method the length of Sequence is shortened

\* by 1. Remaining characters are shifted using System.arrayCopy(..)

\* \*/

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

sb.deleteCharAt(0);

}

/\*\*

\* Convert StringBuilder to String and return it.

\* \*/

**return** sb.toString();

}

Driver Class

**public** **class** SpringTrimLeadingWhiteSpaceDemo {

**public** **static** **void** main(String[] args) {

*trimLeadingWhiteSpaceDemo*(**null**);

}

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

str = StringUtils.*trimLeadingWhitespace*(str);

**return** str;

}

}

Test Cases on Driver Method

|  |  |
| --- | --- |
| **Input** | **Output** |
| null | null |
| “” | “” |
| “ ” | “” |
| “ Java” | “Java” |
| “Java ” | “Java ” |
| “ Java ” | “Java ” |
| “Ja va” | “Ja va” |
| “ Ja va ” | “Ja va ” |

Test cases

**package** stringutils;

**import** junit.framework.Assert;

**import** org.junit.Test;

**public** **class** SpringTrimLeadingWhiteSpaceDemoTest {

@Test

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

Assert.*assertEquals*(**null**, SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*(**null**));

}

@Test

**public** **void** testForAllEmpty(){

Assert.*assertEquals*("", SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*(" "));

}

@Test

**public** **void** testForLeadingEmpty(){

Assert.*assertEquals*("Java", SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*(" Java"));

}

@Test

**public** **void** testForNullTrailingEmpty(){

Assert.*assertEquals*("Java ", SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*("Java "));

}

@Test

**public** **void** testForLeadingAndTrailingEmpty(){

Assert.*assertEquals*("Java ", SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*(" Java "));

}

@Test

**public** **void** testForInMidEmpty(){

Assert.*assertEquals*("Ja va", SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*("Ja va"));

}

@Test

**public** **void** testForLeadingTrailingAndInMidEmpty(){

Assert.*assertEquals*("Ja va ", SpringTrimLeadingWhiteSpaceDemo.*trimLeadingWhiteSpaceDemo*(" Ja va "));

}

}

Test Cases Execution