**Class String**

* [java.lang.Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html)
  + java.lang.String
* **All Implemented Interfaces:**

[Serializable](https://docs.oracle.com/javase/8/docs/api/java/io/Serializable.html), [CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang), [Comparable](https://docs.oracle.com/javase/8/docs/api/java/lang/Comparable.html)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)>

public final class **String**

The String class represents character strings. All string literals in Java programs are implemented as instances of this class.

Strings are constant; their values cannot be changed after they are created. String buffers support mutable strings. Because String objects are immutable they can be shared

**Constructor**

**String()**

Initializes a newly created String object so that it represents an empty character sequence.

**String Methods**

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| --- | --- | --- | --- |
| s.no | **Method** | **Description** | **Return Type** |
| 1 | [charAt()](https://www.w3schools.com/java/ref_string_charat.asp) | Returns the character at the specified index (position) | char |
| 2 | [codePointAt()](https://www.w3schools.com/java/ref_string_codepointat.asp) | Returns the Unicode of the character at the specified index | int |
| 3 | [codePointBefore()](https://www.w3schools.com/java/ref_string_codepointbefore.asp) | Returns the Unicode of the character before the specified index | int |
| 4 | [codePointCount()](https://www.w3schools.com/java/ref_string_codepointcount.asp) | Returns the number of Unicode values found in a string. | int |
| 5 | [compareTo()](https://www.w3schools.com/java/ref_string_compareto.asp) | Compares two strings lexicographically | int |
| 6 | [compareToIgnoreCase()](https://www.w3schools.com/java/ref_string_comparetoignorecase.asp) | Compares two strings lexicographically, ignoring case differences | int |
| 7 | [concat()](https://www.w3schools.com/java/ref_string_concat.asp) | Appends a string to the end of another string | String |
| 8 | [contains()](https://www.w3schools.com/java/ref_string_contains.asp) | Checks whether a string contains a sequence of characters | boolean |
| 9 | [contentEquals()](https://www.w3schools.com/java/ref_string_contentequals.asp) | Checks whether a string contains the exact same sequence of characters of the specified CharSequence or StringBuffer | boolean |
| 10 | [copyValueOf()](https://www.w3schools.com/java/ref_string_copyvalueof.asp) | Returns a String that represents the characters of the character array | String |
| 11 | [endsWith()](https://www.w3schools.com/java/ref_string_endswith.asp) | Checks whether a string ends with the specified character(s) | boolean |
| 12 | [equals()](https://www.w3schools.com/java/ref_string_equals.asp) | Compares two strings. Returns true if the strings are equal, and false if not | boolean |
| 13 | [equalsIgnoreCase()](https://www.w3schools.com/java/ref_string_equalsignorecase.asp) | Compares two strings, ignoring case considerations | boolean |
| 14 | format() | Returns a formatted string using the specified locale, format string, and arguments | String |
| 15 | getBytes() | Encodes this String into a sequence of bytes using the named charset, storing the result into a new byte array | byte[] |
| 16 | getChars() | Copies characters from a string to an array of chars | void |
| 17 | [hashCode()](https://www.w3schools.com/java/ref_string_hashcode.asp) | Returns the hash code of a string | int |
| 18 | [indexOf()](https://www.w3schools.com/java/ref_string_indexof.asp) | Returns the position of the first found occurrence of specified characters in a string | int |
| 19 | intern() | Returns the canonical representation for the string object | String |
| 20 | [isEmpty()](https://www.w3schools.com/java/ref_string_isempty.asp) | Checks whether a string is empty or not | boolean |
| 21 | [lastIndexOf()](https://www.w3schools.com/java/ref_string_lastindexof.asp) | Returns the position of the last found occurrence of specified characters in a string | int |
| 22 | [length()](https://www.w3schools.com/java/ref_string_length.asp) | Returns the length of a specified string | int |
| 23 | matches() | Searches a string for a match against a regular expression, and returns the matches | boolean |
| 24 | offsetByCodePoints() | Returns the index within this String that is offset from the given index by codePointOffset code points | int |
| 25 | regionMatches() | Tests if two string regions are equal | boolean |
| 26 | [replace()](https://www.w3schools.com/java/ref_string_replace.asp) | Searches a string for a specified value, and returns a new string where the specified values are replaced | String |
| 27 | replaceFirst() | Replaces the first occurrence of a substring that matches the given regular expression with the given replacement | String |
| 28 | replaceAll() | Replaces each substring of this string that matches the given regular expression with the given replacement | String |
| 29 | split() | Splits a string into an array of substrings | String[] |
| 30 | [startsWith()](https://www.w3schools.com/java/ref_string_startswith.asp) | Checks whether a string starts with specified characters | boolean |
| 31 | subSequence() | Returns a new character sequence that is a subsequence of this sequence | CharSequence |
| 32 | substring() | Returns a new string which is the substring of a specified string | String |
| 33 | toCharArray() | Converts this string to a new character array | char[] |
| 34 | [toLowerCase()](https://www.w3schools.com/java/ref_string_tolowercase.asp) | Converts a string to lower case letters | String |
| 35 | toString() | Returns the value of a String object | String |
| 36 | [toUpperCase()](https://www.w3schools.com/java/ref_string_touppercase.asp) | Converts a string to upper case letters | String |
| 37 | [trim()](https://www.w3schools.com/java/ref_string_trim.asp) | Removes whitespace from both ends of a string | String |
| 38 | valueOf() | Returns the string representation of the specified value | String |