

**TABLE 8.1** Selected String Methods

| Method  | Description  |
|---|--|
| char <b>charAt</b> (int index)  | Returns the character at a specified index in the string.  |
| int <b>compareTo</b> (String s)   | Compares the string object to another string lexicographically. Returns:<br>0 if string is equal to s<br><0 if string less than s<br>>0 if string greater than s   |
| String <b>concat</b> (String s)   | Concatenates the string s to the end of this string.   |
| boolean <b>endsWith</b> (String suffix)   | Returns true if this string ends with the specified suffix.  |
| boolean <b>equals</b> (Object o)  | Returns true if o is a String and contains exactly the same characters as the string.  |
| boolean <b>equalsIgnoreCase</b> (String s)  | Returns true if s contains exactly the same characters as the string, disregarding case.   |
| void <b>getChars</b> (int i1, int i2, char[] dst, int i3)                                     | Copies the characters in the string from position i1 to position i2 into character array dst, starting at index i3.  |
| int <b>indexOf</b> (char ch)  | Returns the index of the <i>first</i> location of ch in the string.  |
| int <b>indexOf</b> (char ch, int start)   | Returns the index of the <i>first</i> location of ch at or after position start in the string.   |
| int <b>indexOf</b> (String s)   | Returns the index of the <i>first</i> location of substring s in the string.   |
| int <b>indexOf</b> (String s, int start)  | Returns the index of the <i>first</i> location of substring s at or after position start in the string.  |
| int <b>lastIndexOf</b> (char ch)  | Returns the index of the <i>last</i> location of ch in the string.   |
| int <b>lastIndexOf</b> (char ch, int start)   | Returns the index of the <i>last</i> location of ch at or before position start in the string.   |
| int <b>lastIndexOf</b> (String s)   | Returns the index of the <i>last</i> location of substring s in the string.  |
| int <b>lastIndexOf</b> (String s, int start)  | Returns the index of the <i>last</i> location of substring s at or before position start in the string.  |
| boolean <b>regionMatches</b> (int off1, String s, int off2, int len)                          | This method compares len characters of the string starting at index off1 with len characters of s starting at index off2. If they match, the method returns true. Otherwise, the method returns false.   |
| boolean <b>regionMatches</b> (boolean ignoreCase, int off1, with String s, int off2, int len) | This method compares len characters of the string starting at index off1 with len characters of s starting at index off2. If ignoreCase is true and the substrings match, <i>ignoring case</i> , the method returns true. If ignoreCase is false and the substrings match <i>exactly</i> , the method returns true. Otherwise, the method returns false. |
| String <b>replace</b> (char old, char new)  | Returns a new string with every occurrence of character old replaced by character new.   |
| boolean <b>startsWith</b> (String p)  | Returns true if the beginning of the string exactly matches the string p.  |
| boolean <b>startsWith</b> (String p, int off1)  | Returns true if the beginning of the substring starting at index off1 exactly matches the string p.  |
| String <b>substring</b> (int st)  | Returns the substring starting at index st and going to the end of the string.   |
| String <b>substring</b> (int st, int en)  | Returns the substring starting at index st and going to index en-1.  |
| String <b>toLowerCase</b> ()  | Converts the string to lower case.   |
| String <b>toUpperCase</b> ()  | Converts the string to upper case.   |
| String <b>trim</b> ()   | Removes white space from either end of the string.   |
| static String <b>valueOf</b> (boolean b)  | Returns the string representation of a boolean argument.   |
| static String <b>valueOf</b> (char c)   | Returns the string representation of a character argument.   |
| static String <b>valueOf</b> (int i)  | Returns the string representation of an integer argument.  |
| static String <b>valueOf</b> (long l)   | Returns the string representation of a long argument.  |
| static String <b>valueOf</b> (float f)  | Returns the string representation of a float argument.   |
| static String <b>valueOf</b> (double d)   | Returns the string representation of a double argument.  |
| static String <b>valueOf</b> (Object o)   | Returns the string representation of an arbitrary Object.  |

SOURCE: *Java for Engineers and Scientists, 2/e* by Stephen J. Chapman