**1. length()**

* **Description**: Returns the length of the string.
* **Example**:

java

Copy code

String str = "Hello";

int len = str.length(); // len = 5

**2. charAt(int index)**

* **Description**: Returns the character at the specified index.
* **Example**:

java

Copy code

char ch = str.charAt(0); // ch = 'H'

**3. substring(int beginIndex) / substring(int beginIndex, int endIndex)**

* **Description**: Returns a substring from the specified start index, and optionally up to the end index.
* **Example**:

java

Copy code

String substr = str.substring(1); // substr = "ello"

String substr2 = str.substring(1, 3); // substr2 = "el"

**4. contains(CharSequence s)**

* **Description**: Returns true if the string contains the specified sequence of characters.
* **Example**:

java

Copy code

boolean contains = str.contains("ell"); // contains = true

**5. equals(Object anObject)**

* **Description**: Compares two strings for equality.
* **Example**:

java

Copy code

String str2 = "Hello";

boolean isEqual = str.equals(str2); // isEqual = true

**6. equalsIgnoreCase(String anotherString)**

* **Description**: Compares two strings, ignoring case considerations.
* **Example**:

java

Copy code

boolean isEqual = str.equalsIgnoreCase("hello"); // isEqual = true

**7. toUpperCase() / toLowerCase()**

* **Description**: Converts all characters to uppercase or lowercase.
* **Example**:

java

Copy code

String upperStr = str.toUpperCase(); // upperStr = "HELLO"

**8. replace(char oldChar, char newChar) / replace(CharSequence target, CharSequence replacement)**

* **Description**: Replaces occurrences of a character or sequence of characters with another character or sequence.
* **Example**:

java

Copy code

String newStr = str.replace('l', 'p'); // newStr = "Heppo"

**9. trim()**

* **Description**: Removes whitespace from both ends of the string.
* **Example**:

java

Copy code

String trimmedStr = " Hello ".trim(); // trimmedStr = "Hello"

**10. split(String regex)**

* **Description**: Splits the string around matches of the given regular expression.
* **Example**:

java

Copy code

String[] parts = "one,two,three".split(","); // parts = ["one", "two", "three"]

**11. indexOf(String str) / lastIndexOf(String str)**

* **Description**: Returns the index of the first or last occurrence of the specified substring.
* **Example**:

java

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int index = str.indexOf('e'); // index = 1

**12. isEmpty()**

* **Description**: Checks if the string is empty.
* **Example**:

java

Copy code

boolean empty = "".isEmpty(); // empty = true

**13. startsWith(String prefix) / endsWith(String suffix)**

* **Description**: Checks if the string starts or ends with the specified prefix or suffix.
* **Example**:

java

Copy code

boolean starts = str.startsWith("He"); // starts = true