String Comparison and Important Methods in Java





String Comparison - Overview

- → In Java, you can compare strings in 3 main ways:
 - equals()
 - ==
 - .compareTo()

Let's explore each!

**Using .equals()

Compares the content of two strings.

```
java

String s1 = "hello";
String s2 = "hello";
System.out.println(s1.equals(s2)); // true
```

Note:

Always use .equals() to compare string values!

Using ==

Compares references, not content.

```
string s1 = "hello";
String s2 = new String("hello");
System.out.println(s1 == s2); // false
```

Note:

== checks if both variables point to the same object.

**Using .compareTo()

Example:

```
java

String s1 = "apple";
String s2 = "banana";
System.out.println(s1.compareTo(s2)); // Negative value
```

Returns:

- 0 if equal
- Negative if s1 < s2
- Positive if s1 > s2

Important String Methods (Part 1)

Method	Example	Result
.length()	"hello".length()	5
.charAt(1)	"hello".charAt(1)	'e'
.substring(1, 4)	"hello".substring(1, 4)	"ell"



Important String Methods (Part 2)

Method	Example	Result
.contains("ell")	"hello".contains("ell ")	true
.equalsIgnoreCase(" HELLO")	"hello".equalsIgnor eCase("HELLO")	true
.toUpperCase()	"hello".toUpperCas e()	HELLO

*Important String Methods (Part 3)

Method	Example	Result
.trim()	" hello ".trim()	hello
.replace("l", "p")	"hello".replace("l", "p")	heppo
.split(",")	"a,b,c".split(",")	["a", "b", "c"]

Thank You