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Log in

Operators

i

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perators

e used to perform operations on variables and values.

le below, we use the + **operator** to add together two values:

10 + 50;

Try it Yourself »

Although the + operator is often used to add together two values, like in the example above, it can also be used to add together a variable and a value, or a variable and another variable:

Example

□ Dark mode

```
int sum2 = sum1 + 250;  // 400 (150 + 250)
ADVERTESEVINIST = sum2 + sum2;  // 800 (400 + 400)
```

elf »

the operators into the following groups:

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etic Operators

erators are used to perform common mathematical operations.

	Name	Description	Example	Try it
	Addition	Adds together two values	x + y	Try it »
	Subtraction	Subtracts one value from another	x - y	Try it »
*	Multiplication	Multiplies two values	x * y	Try it »
/	Division	Divides one value by another	x / y	Try it »
%	Modulus	Returns the division remainder	x % y	Try it »
++	Increment	Increases the value of a variable by 1	++x	Try it »
	Decrement	Decreases the value of a variable by 1	X	Try it »





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signment Operators

perators are used to assign values to variables.

le below, we use the **assignment** operator (=) to assign the value **10** to a d x:

1;

Try it Yourself »

The **addition assignment** operator (+=) adds a value to a variable:

Example

```
int x = 10;
x += 5;
```





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ssignment operators:

Example	Same As	Try it
x = 5	x = 5	Try it »
x += 3	x = x + 3	Try it »
x -= 3	x = x - 3	Try it »
x *= 3	x = x * 3	Try it »
x /= 3	x = x / 3	Try it »
x %= 3	x = x % 3	Try it »
x &= 3	x = x & 3	Try it »
x = 3	x = x 3	Try it »
x ^= 3	x = x ^ 3	Try it »
x >>= 3	x = x >> 3	Try it »
x <<= 3	x = x << 3	Try it »

Java Comparison Operators

Comparison operators are used to compare two values. This is important in programming, because it helps us to find answers and make decisions.

The return value of a comparison is either true or false. These values are known as Boolean values, and you will learn more about them in the <u>Booleans</u> and <u>If..Else</u> chapter.

In the following example, we use the **greater than** operator (>) to find out if 5 is greater than 3:



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:.println(x > y); // returns true, because 5 is higher than 3
elf »

Name	Example	Try it
Equal to	x == y	Try it »
Not equal	x != y	Try it »
Greater than	x > y	Try it »
Less than	x < y	Try it »
Greater than or equal to	x >= y	Try it »
Less than or equal to	x <= y	Try it »

gical Operators

You can also test for true or false values with logical operators.

Logical operators are used to determine the logic between variables or values:

Operator	Name	Description	Example	Try it
&&	Logical and	Returns true if both statements are true	x < 5 && x < 10	Try it »
П	Logical or	Returns true if one of the statements is true	x < 5 x < 4	Try it »
!	Logical not	Reverse the result, returns	!(x < 5 & €	ark mode





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se:

with 5, and print the result.

out.println(10 5);

nswer »

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