Assignment operators • Comparison operators Logical operators

Description

Java divides the into the following groups:

Bitwise operators

Arithmetic

## Arithmetic Operators Arithmetic operators are used to perform common mathematical operations. Operator Name

Adds together two values Addition Try it » x + y

Example Try it

2x = +5 2x = 5 2x = 5

	-/	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 »
U	++	Increment	Increases the value of a variable by 1	++x	Try it »
٢		Decrement	Decreases the value of a variable by 1	x	Try it »
ĺ	ADVERT	ISEMENT			
	Java Assi	gnment Opera	ators		

Assignment operators are used to assign values to variables.

In the example below, we use the **assignment** operator (=) to assign the value **10** to a variable called **x**: Example intx =10; Try it Yourself » The **addition assignment** operator (+=) adds a value to a variable: Example intx =10;x +=5; Try it Yourself » A list of all assignment operators:

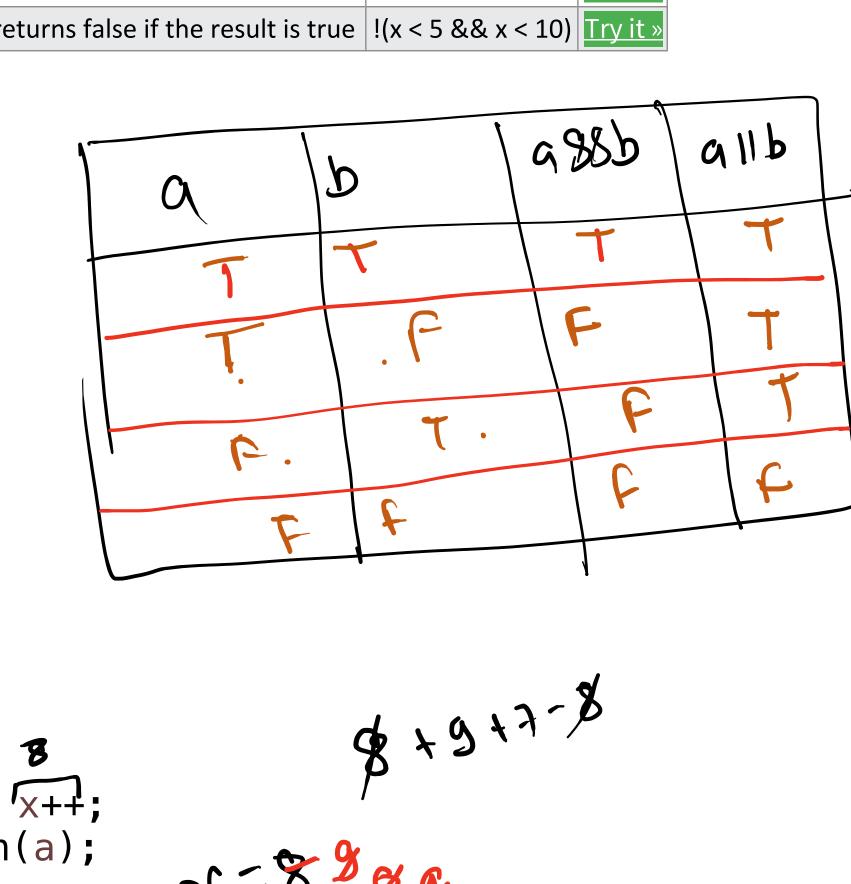
**Operator Example Same As** Try it x = 5x = 5Try it » x = x + 3Try it » x += 3Try it » x = x - 3x -= 3x \*= 3Try it » x = x \* 3Try it » x /= 3x = x / 3x %= 3 x = x % 3Try it » **%**= x &= 3x = x & 3Try it » Try it »  $x = x \mid 3$ |x| = 3| = $x ^= 3$ Try it »  $x = x ^ 3$ >>=

2=8559

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:

Operator	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 »	
Java Logical	Operators			
Logical ope	erators are used to detern	nine the log	gic betw	een va

**Operator Name Description** Example Try it && Logical and Returns true if both statements are true Try it » x < 5 && x < 10Returns true if one of the statements is true x < 5 | | x < 4Logical or Try it » Logical not Reverse the result, returns false if the result is true !(x < 5 && x < 10) Try it » P



int  $a = \frac{8}{x++} + \frac{9}{x-1} + 7 - \frac{8}{x++};$ System.out.println(a); int a = x++ + --x + 7 - ++x - --x;System.out.println(a);// 16