

+ Addition Adds together two values $x + y$

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        int y = 3;  
        System.out.println(x + y);  
    }  
}
```

- Subtraction Subtracts one value from another $x - y$

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        int y = 3;  
        System.out.println(x - y);  
    }  
}
```

* Multiplication Multiplies two values $x * y$

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        int y = 3;  
        System.out.println(x * y);  
    }  
}
```

/ Division Divides one value by another x / y

```
public class Main {  
    public static void main(String[] args) {  
        int x = 12;  
        int y = 3;  
        System.out.println(x / y);  
    }  
}
```

```
}
```

% Modulus Returns the division remainder $x \% y$

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        int y = 2;  
        System.out.println(x % y);  
    }  
}
```

++ Increment Increases the value of a variable by 1 ++x

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        ++x;  
        System.out.println(x);  
    }  
}
```

-- Decrement Decreases the value of a variable by 1 --x

```
public class Main {  
    public static void main(String[] args) {  
        int x = 5;  
        --x;  
        System.out.println(x);  
    }  
}
```

A list of all assignment operators:

Operator	Example	Same As
=	x = 5	x = 5
+=	x += 3	x = x + 3
-=	x -= 3	x = x - 3
*=	x *= 3	x = x * 3
/=	x /= 3	x = x / 3
%=	x %= 3	x = x % 3
&=	x &= 3	x = x & 3
=	x = 3	x = x 3

Java Comparison Operators

Comparison operators are used to compare two values:

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

Java Logical Operators

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

Operator	Name	Description	Example
&&	Logical and	Returns true if both statements are true	<code>x < 5 && x < 10</code>
	Logical or	Returns true if one of the statements is true	<code>x < 5 x < 4</code>
!	Logical not	Reverse the result, returns false if the result is true	<code>!(x < 5 && x < 10)</code>

Logical 'AND' Operator (&&)

This operator returns true when both the conditions under consideration are satisfied or are true. If even one of the two yields false, the operator results false. In Simple terms, `cond1 && cond2` returns true when both `cond1` and `cond2` are true (i.e. non-zero).