Javascript Operators

In JavaScript, an operator is a special symbol used to perform operations on operands (values and variables). For example, 2 + 3; // 5. Here + is an operator that performs addition, and 2 and 3 are operands.

Types of JavaScript Operators

There are different types of JavaScript operators:

- Aritmetic Operators
- Assignment Operators
- Comparison Operators
- Logical Operators
- Conditional Operators

1) Arithmetics Operators

In JavaScript, arithmetic operators take numerical values (either literals or variables) as their operands and return a single numerical value. There are four standard arithmetic operators, addition (+), subtraction (-), multiplication (*), and division (/).

Arithmetic Operators

Operators	Meaning	Example	Result
+	Addition	4+2	6
-	Subtraction	4-2	2
*	Multiplication	4*2	8
/	Division	4/2	2
%	Modulus operator to get remainder in integer division	5%2	1
++	Increment	A = 10; A++	11
	Decrement	A = 10; A	9

2) Assignment operator

The Assignment operator is **equal (=)** which assigns the value of right-hand operand to its left-hand operand. That is if a = b assigns the value of b to a.

Operator	Example	Equivalent Expression (m=15)	Result
=	$y = \underline{a+b}$	y = 10 + 20	30
+=	m+=10	m = m+10	25
A=0	m -=10	m = m-10	5
*=	m *=10	m = m*10	150
/=	m/=10	m = m/10	1.5
%=	m %=10	m = m%10	5
=	m=2	$m = m^{**}2 \text{ or } m = m^2$	225
//=	m//=10	m = m//10	1

3) Comparison operators

The **Comparison operators** are mainly used to perform the logical operations that determine the equality or difference between the values.

Relational Operators

Operators	Meaning	Example	Result
<	Less than	5<2	False
>	Greater than	5>2	True
<=	Less than or equal to	5<=2	False
>=	Greater than or equal to	5>=2	True
==	Equal to	5==2	False
! =	Not equal to	5! =2	True
===	Equal value and same type	5 === 5	True
		5 === "5"	False
! ==	Not Equal value or Not	5!==5	False
	same type	5!=="5"	True

4) Logical Operators

Logical Operators

Operator	Meaning	Example	Result
&&	Logical and	(5<2)&&(5>3)	False
	Logical or	(5<2) (5>3)	True
!	Logical not	!(5<2)	True

Conditional (Ternary) Operator

JavaScript also contains a conditional operator that assigns a value to a variable based on some condition.

Example:

```
let voteable = (age < 18) ? "Too young":"Old enough";</pre>
```