

script.js

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1 // Operators in JavaScript
2
3 // Operators are the special symbols that are used to perform operations on variables and values. There are various types of
  operators viz arithmetic operators, assignment operators, comparison operators, logical operators, ternary operators and so on.
4
5 // Arithmetic Operators are used to perform mathematical operations.
6
7 console.log("Arithmetic Operators:");
8
9 let a = 20;
10
11 let b = 10;
12
13 console.log(a + b); // Addition
14
15 console.log(a - b); // Subtraction
16
17 console.log(a * b); // Multiplication
18
19 console.log(a / b); // Division
20
21 console.log(a % b); // Modulus (Remainder)
22
23 console.log(a ** b); // Exponent (Power)
24
25 // Assignment Operators are used to assign values to variables.
26
27 console.log("Assignment Operators:");
28
29 let c = 100;
30
31 console.log(c += 50); // c = c + 50 - Add and Assign
32
33 console.log(c -= 50); // c = c - 50 - Subtract and Assign
34
35 console.log(c *= 50); // c = c * 50 - Multiply and Assign
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36
37 console.log(c /= 50); // c = c / 50 - Divide and Assign
38
39 console.log(c %= 50); // c = c % 50 - Modulus and Assign
40
41 // Comparison Operators also known as Relational Operators are used to compare two values. It gives the output in the form of
  boolean as true or false.
42
43 console.log("Comparison Operators:");
44
45 let d = 30;
46
47 let e = 40;
48
49 console.log(d > e); // Greater than
50
51 console.log(d < e); // Less than
52
53 console.log(d >= e); // Greater than or equal to
54
55 console.log(d <= e); // Less than or equal to
56
57 console.log(d == e); // Equal to
58
59 console.log(d != e); // Not equal to
60
61 // Logical Operators are used to perform logical operations and returns a boolean value true or false.
62
63 console.log("Logical Operators:");
64
65 let f = 50;
66
67 let g = 60;
68
69 console.log(f > g && f < g); // Logical AND: If both conditions are true, then the result is true else result is false.
70
71 console.log(f > g || f < g); // Logical OR: If either condition is true, then the result is true else result is false.
72
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73 console.log(!(f > g)); // Logical NOT: If the condition is true, then the result is false else result is true.
74
75 console.log("Bitwise Operators:");
76
77 // Bitwise Operators are used to perform bitwise operations. It returns the result in the form of decimal number.
78
79 let h = 70;
80
81 let i = 80;
82
83 console.log(h & i); // Bitwise AND
84
85 console.log(h | i); // Bitwise OR
86
87 console.log(h ^ i); // Bitwise XOR
88
89 console.log(~i); // Bitwise NOT
90
91 console.log(h << i); // Bitwise Left Shift
92
93 console.log(h >> i); // Bitwise Right Shift
```