http://www.cinstitute.co.in
https://youtube.com/tarunsir

+917742817777

Logical Operators

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

Logical operators are typically used with Boolean (logical) values; when they are, they return a Boolean value. However, the && and || operators actually return the value of one of the specified operands, so if these operators are used with non-Boolean values, they may return a non-Boolean value.

We have three logical operators in js:

• && : logical AND

The && operator evaluates to **true** if both operands are **true**, otherwise it evaluates to **false**. For example, **true** && **true** evaluates to **true**, while **true** && **false** and **false** && **false** both evaluate to **false**.

• || : Logical OR

The | | operator evaluates to **true** if at least one operand is **true**, otherwise it evaluates to **false**. For example, **true** | | **true** and **true** | | **false** both evaluate to **true**, while **false** | | **false** evaluates to **false**.

• !: Logical NOT

The ! operator is a unary operator that negates its operand. It returns **true** if its operand is **false**, and **false** if its operand is **true**. For example, !true evaluates to **false**, while !false evaluates to **true**.

Example:

```
let a = 5;

let b = 10;

// Logical AND

console.log(a < 10 && b > 5); // true

console.log(a > 10 && b > 5); // false

// Logical OR

console.log(a < 10 || b > 5); // true

console.log(a > 10 || b > 5); // true

console.log(a > 10 || b < 5); // false

// Logical NOT

console.log(!(a < 10)); // false

console.log(!(a > 10)); // true
```