**Question 1: What are the different types of operators in JavaScript? Explain with examples.**

1. **Arithmetic Operators**: Perform mathematical operations

let sum = 10 + 5;

let difference = 10 - 5;

let product = 10 \* 5;

let quotient = 10 / 5;

let remainder = 10 % 3;

1. **Assignment Operators**: Assign values to variables

let x = 10;

x += 5; // x = x + 5 (15)

x -= 3; // x = x - 3 (12)

x \*= 2; // x = x \* 2 (24)

1. **Comparison Operators**: Compare values

10 == '10' // true (loose equality)

10 === '10' // false (strict equality)

5 > 3 // true

5 <= 5 // true

1. **Logical Operators**: Combine boolean values

true && false // false (AND)

true || false // true (OR)

!true // false (NOT)

**Question 2: What is the difference between == and === in JavaScript?**

* == (loose equality): Checks for value equality after type coercion
* === (strict equality): Checks for value and type equality without coercion

Examples:

5 == '5' // true (type coercion)

5 === '5' // false (different types)

null == undefined // true

null === undefined // false