

Theory Assignment

Question 1: Types of Operators in JavaScript (Simple)

1. Arithmetic Operators

Perform math:

```
let a = 10, b = 5;
```

```
console.log(a + b); // 15 (Add)
```

```
console.log(a * b); // 50 (Multiply)
```

2. Assignment Operators

Assign and update values:

```
let x = 10;
```

```
x += 5; // x = x + 5
```

```
console.log(x); // 15
```

3. Comparison Operators

Compare values:

```
console.log(5 > 3); // true
```

```
console.log(5 == '5'); // true
```

4. Logical Operators

Combine conditions:

```
console.log(5 > 0 && 3 > 0); // true (AND)
```

```
console.log(5 > 0 || 3 < 0); // true (OR)
```

Question 2: Difference Between == and ===

1. == (Equality)

- Compares **values only**, ignores type.

```
console.log(5 == '5'); // true
```

2. === (Strict Equality)

- Compares **value and type**.

```
console.log(5 === '5'); // false (different types)
```