**JavaScript Operators**

**Theory Assignment**

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

**Arithmetic operators**

**Assignment operators**

**Comparison operators**

**Logical operators**

**Answer: Different Types of Operators in JavaScript:**

1. **Arithmetic Operators  
   Perform basic math operations.  
   Examples:**
   * **+ (Addition): 5 + 3 → 8**
   * **- (Subtraction): 5 - 3 → 2**
   * **\* (Multiplication): 5 \* 3 → 15**
   * **/ (Division): 5 / 2 → 2.5**
   * **% (Modulus): 5 % 2 → 1**
2. **Assignment Operators  
   Assign values to variables, with optional operations.  
   Examples:**
   * **=: x = 5 → x is 5**
   * **+=: x += 3 → x = x + 3**
   * **-=: x -= 2 → x = x - 2**
3. **Comparison Operators  
   Compare values and return true or false.  
   Examples:**
   * **==: 5 == '5' → true (value match)**
   * **===: 5 === '5' → false (strict match)**
   * **>: 5 > 3 → true**
   * **<: 5 < 3 → false**
4. **Logical Operators  
   Combine or invert Boolean values.  
   Examples:**
   * **&&: true && false → false**
   * **||: true || false → true**
   * **!: !true → false**

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

**Answer: The difference between == and === in JavaScript is:**

* **== (Equality): Compares values only, allowing type conversion.  
  Example: 5 == '5' → true**
* **=== (Strict Equality): Compares values and types without type conversion.  
  Example: 5 === '5' → false**

**Use === for more accurate comparisons.**