JavaScript has various operators that allow you to perform operations on variables and values. Here, I'll provide explanations and code examples for some of the most commonly used operators:

1. **Arithmetic Operators:**
   - These operators perform basic arithmetic operations.

   ```javascript
   let a = 5;
   let b = 2;

   console.log(a + b); // Addition: 7
   console.log(a - b); // Subtraction: 3
   console.log(a * b); // Multiplication: 10
   console.log(a / b); // Division: 2.5
   console.log(a % b); // Modulus (remainder): 1
   console.log(a ** b); // Exponentiation: 25
   ```

2. **Comparison Operators:**
   - Used to compare values and return a boolean result.

   ```javascript
   let x = 5;
   let y = 10;

   console.log(x === y); // Equal to: false
   console.log(x !== y); // Not equal to: true
   console.log(x > y);   // Greater than: false
   console.log(x < y);   // Less than: true
   console.log(x >= y);  // Greater than or equal to: false
   console.log(x <= y);  // Less than or equal to: true
   ```

3. **Logical Operators:**
   - Used to perform logical operations.

   ```javascript
   let p = true;
   let q = false;

   console.log(p && q); // Logical AND: false
   console.log(p || q); // Logical OR: true
   console.log(!p);     // Logical NOT: false
```

```

4. **Assignment Operators:**
   - Used to assign values to variables.

   ```javascript
   let num = 10;

   num += 5; // Equivalent to: num = num + 5;
   console.log(num); // 15

   num -= 3; // Equivalent to: num = num - 3;
   console.log(num); // 12

   num *= 2; // Equivalent to: num = num * 2;
   console.log(num); // 24
   ```

5. **Unary Operators:**
   - Operate on a single operand.

   ```javascript
   let counter = 5;

   counter++; // Increment by 1
   console.log(counter); // 6

   counter--; // Decrement by 1
   console.log(counter); // 5

   let isTrue = true;

   console.log(!isTrue); // Logical NOT: false
   ```

6. **Ternary Operator:**
   - A shorthand for an `if-else` statement.

   ```javascript
   let age = 20;

   let result = (age >= 18) ? 'Adult' : 'Minor';
   console.log(result); // Adult
   ```
   ```