<u>Operator</u>

1. Arithmatic operator :
   - ➢ Write code to perform addition, subtraction, multiplication, division, and modulus operations using JavaScript. Explain each operation.
   - ➢ Demonstrate the use of the increment (`++`) and decrement (`--`) operators, both in prefix and postfix forms. Explain the difference between prefix and postfix.

2. Comparison Operators :
   - ➢ Write examples using the equality (`==`) and inequality (`!=`) operators. Explain how type coercion affects the comparison.
   - ➢ Demonstrate the use of strict equality (`===`) and strict inequality (`!==`) operators. Explain why these are generally preferred over `==` and `!=`.
   - ➢ Provide examples using relational operators (`>`, `<`, `>=`, `<=`) to compare numbers. Explain how they work.

3. Logical Operators :

AND (`&&`) and OR (`||`) Operators:

   - ➢ Write examples using the logical AND (`&&`) and OR (`||`) operators. Explain how they combine boolean expressions.

NOT (`!`) Operator:

   - ➢ Demonstrate the use of the logical NOT (`!`) operator to invert a boolean value. Provide an example and explanation.

4 Assignment Operators

   - ➢ Demonstrate how to use the basic assignment operator (`=`) and compound assignment operators (`+=`, `-=`, `*=`, `/=`, `%=`). Provide examples and explanations.

1. Ternary (Conditional) Operator

Using the Ternary Operator:

   - ➢ Write an example using the ternary operator (`condition ? expr1 : expr2`). Explain how it works as a shorthand for `if-else`.

2. Bitwise Operators (Optional)

Provide a brief explanation of bitwise operators and their use. Write examples using &, |, ^, ~, <<, and >>.