

1. Arithmetic Operators:

- Write a Java program that uses all five arithmetic operators (+, -, *, /, %) on two numbers and prints the results.

2. Increment and Decrement:

- Demonstrate the difference between pre-increment (++x) and post-increment (x++) by printing their effects on a variable's value.

3. Logical Operators:

- Test a combination of logical operators (&&, ||, !) in a Java program. Create expressions that evaluate to TRUE and FALSE.

4. Assignment Operators:

- Write a program that uses all assignment operators (+=, -=, *=, /=, %=) to update the value of a variable and prints the final result after each operation.

5. Comparison Operators:

- Compare two numbers using all the comparison operators (==, !=, >, <, >=, <=) and print whether the condition is TRUE or FALSE.

6. Bitwise Operators:

- Create a program that uses bitwise operators (&, |, ^, ~, <<, >>) to manipulate and print binary values.

7. Practical Use of Logical and Comparison Operators:

- Combine logical and comparison operators to create an expression that checks if a number is between 10 and 20.

8. Explore Modulus:

- Write a program to print the remainder of numbers from 1 to 10 when divided by a constant value.