

Assignment for Operators

1. Write a C program that demonstrates the difference between pre-increment (++x) and post-increment (x++) operators. Print the values before and after each operation.
2. Write a C program for calculator with basic operations.
3. Write a C program that initializes a variable x to 10. Use compound assignment operators to increment x by 5, decrement x by 2, multiply x by 3, and divide x by 4. Print the final value of x.
4. Write a C program that demonstrates the use of bitwise AND, OR, and XOR operators. Initialize two integers and apply these operators to them, then print the results.
5. Write a C program that uses unary operators to increment and decrement a variable. Initialize a variable, use both pre-increment and post-increment operators, and print the results.
6. Write a C program that calculates the maximum of three numbers using the conditional (ternary) operator. The program should handle cases where the numbers are equal.
7. Write a C program that demonstrates the effects of type casting on arithmetic operations. The program should perform division with both integer and floating-point types and show how the results differ.
8. Write a C program that demonstrates the order of evaluation in expressions with operators. Use parentheses to show how operator precedence affects the result.