TOPIC: Develop a C program that functions as a basic calculator using a switch statement to perform arithmetic operations: addition (+), subtraction (-), multiplication (*), division (/), and modulus (%).

Requirements:

1. **User Input:**

   - Prompt the user to enter two **integers**.

   - Prompt the user to enter an arithmetic **operator** (+, -, *, /, %).

2. **Operation Handling:**

   - Use a **switch** statement to handle the operator.

   - For each case:

     - +: Add the two numbers.

     - -: Subtract the second number from the first.

     - *: Multiply the two numbers.

     - /: Perform **integer division** (show an error if dividing by zero).

     - %: Compute the **modulus** (remainder) (show an error if dividing by zero).

3. **Error Handling:**

   - If the user enters an operator other than the five supported ones, print:
     "Error: Unsupported operation."

   - If division or modulus is attempted with a divisor of zero, print:
     "Error: Division or modulus by zero is not allowed."

4. **Output:**
   - Display the full expression and the result in a readable format, e.g.:
     "8 * 5 = 40"