

CSE 107 HOMEWORK 5

Question 1: Simple Calculator

Write a C program that acts as a simple calculator. The program should:

1. Prompt the user to enter two integers.
2. Display a menu to choose an operation:
 - 1 for Addition
 - 2 for Subtraction
 - 3 for Multiplication
 - 4 for Division
3. Use a **switch** statement to perform the selected operation and display the result.

If the user selects an invalid option, the program should display **"Invalid option. Please choose a number between 1 and 4."** For division, ensure that if the second number is 0, the program should display **"Error: Division by zero is not allowed."**

Question 2: Find the Sum of Odd Numbers

Write a C program that prompts the user to enter a positive integer n . The program should calculate and display the sum of all odd numbers from 1 to n . Use a **for** loop to control the addition process.

Example: If the user enters 10, the program should calculate $1 + 3 + 5 + 7 + 9 = 25$ and display **"The sum of odd numbers from 1 to 10 is 25."**