# C Course :: Fall 2008, Lab Session

23 August 2008

Problem 1

**Problem**

You already know the various operators in C.

Mathematical Operators: \*, /, +, -, ++, --, %

Comparison Operators: <, > , <=, >= , !=, ==, !, &&, ||

Bitwise Operators: <<, >>, ~, &, | ,^

Take two integers (i1, i2) and two float values(f1, f2) as input from the user and print the following:

1. Average of floating numbers.
2. Bitwise-OR and Bitwise-AND of integer numbers.
3. Left-shift i1 by 2 places and Right-shift i2 by 1 place and print out the result. (Note that left shift multiplies the number by 2 and right shift divides it by 2)

**Input**

Ask user to enter i1, i2.  
Ask user to enter f1, f2.

**Sample**

Enter i1 and i2: 5 6

Enter f1 and f2: 3.0 8.0

Average of f1 and f2 is: 5.5000

Bitwise-OR and Bitwise-AND of i1 and I2 is: 7 and 4

i1 shifted left by two places: 20 and i2 shifted right by 1 place: 3

Problem 2

**Problem**

You are given a three digit decimal integer. Print out the sum of its three digits.

**Input**

Ask user to enter an integer from console.

**Output**

Output the sum of individual digits of the number.

**Sample**

Enter a three digit integer: 786

Sum of the digits of the number is: 21