

Problem Set 4 Exercise #01: Simple Calculator

Reference: Lecture 10 notes

Learning objectives: Reading and comparing characters

Estimated completion time: 15 minutes

Problem statement:

Write a program **calculator.c** to implement a simple calculator which can perform the following arithmetic operations on integers:

- Addition (+)
- Subtraction (-)
- Multiplication (*)
- Division (/)

In each operation, the operator appears in the middle of the two operands (e.g. $5*2$). The following are examples:

- $2+3 = 5$
- $2/3 = 0.67$

Note that you may assume division operation is always valid and result should be shown in 2 decimal places.

Sample run #1:

```
Enter the number of operations: 4
23+40
23+40 = 63
50-40
50-40 = 10
7/2
7 / 2 = 3.50
5*-7
5*-7 = -35
```

Sample run #2:

```
Enter the number of operations: 1
4*-10
4*-10 = -40
```