

## CS1050 – Prelab2

Spring 2022

### Concepts to Practice

- Simple input/output
- Integer variables
- Arithmetic operators

### Description

For the prelab assignment, write a C program that reads in two integer numbers from user input. Save the values of these numbers in two variables called X and Y. Print the values of X and Y. Print the value of X multiplied times Y. Print the value of X divided by Y. Print the value of X plus 1, quantity times Y (e.g., if X is 5 and Y is 2 then X plus 1 quantity times Y is 12 because X plus 1 is 6 and 6 times 2 is 12). Print the values of X and Y again to show that they did not change.

### Example 1:

```
jimr@JimRArea51:~/CS1050/SP2022/labs/lab2$ compile prelab2.c
jimr@JimRArea51:~/CS1050/SP2022/labs/lab2$ ./a.out
Enter 2 integers separated by spaces:
7 11
*** Initial values ***
X = 7
Y = 11

*** Calculated values ***
X times Y = 77
X divided by Y = 0
X plus 1, quantity times Y = 88
*** Final values ***
X = 7
Y = 11
```

### Example 2

```
jimr@JimRArea51:~/CS1050/SP2022/labs/lab2$ ./a.out
Enter 2 integers separated by spaces:
15 7
*** Initial values ***
X = 15
Y = 7

*** Calculated values ***
X times Y = 105
X divided by Y = 2
X plus 1, quantity times Y = 112
*** Final values ***
X = 15
Y = 7
```