CS 211 Introduction to Programming
Fall 2019

Programming Assignment 2
(Assigned: August 29, 2019; Due: September 5, 2019)

The goal of this assignment is to write a simple program that performs integer I/O and arithmetic, and employs simple branching mechanisms.

Write a C++ program that prompts the user to enter two numbers and a choice of binary operation, and then displays the result of applying that operation to those numbers.

Notes:

- The name of your C++ source file ***must*** be: `pa2.cpp`
- The program is only required to work if the numbers entered by the user are integers (positive, negative, or zero). All calculations done in the program should use only integer values.
- A typical sample run of your program should look like (output `blue`, input `red`):

```
Enter the first integer: 2
Enter the second integer: 8

The available operations are:
      1. addition
      2. subtraction
      3. multiplication
Enter the number for your choice of operation: 2

2 - 8 = -6
```

- A sample run that quits due to invalid operation choice should look like:

```
Enter the first integer: 23
Enter the second integer: -14

The available operations are:
      1. addition
      2. subtraction
      3. multiplication
Enter the number for your choice of operation: 9

9 is an invalid operation. Valid choices are 1 thru 3. Quitting.
```

Assignment Submission Instructions:

Submit just your `pa2.cpp` file via Blackboard. Please do not submit any other file contained in your Visual Studio 2019 project for this assignment.

Grading Rubric:

Your program submission will be graded according to the following rubric:

The name of the submitted program source file is `pa2.cpp` (*not* `pa2.c` or `Pa2.cpp` or `PA2.cpp` etc.)	1
The first two lines (student's name, and student's WSU ID) of the required comments at the top of the program are included	1
The variable identifier names used are descriptive	1
A good indentation scheme is used throughout the program	2
The program compiles and links with no errors or warnings	3
The program works correctly for correct inputs, e.g. `6 * -5 = -30`	5
The program detects and reports illegal operation choice, e.g. `9`	2
TOTAL	**15**