CSE 2312: Computer Organization & Assembly Language Programming Spring 2018 Program #4

In this assignment, you will create a simple integer division calculator that will compute the floating point result of the division of two integers n and d (numerator and denominator).

When executed, your program will immediately wait for the user to enter the value of n and d, which will be integer values (positive or negative). Once entered, you will call the $_divide$ procedure to compute the decimal result of n / d. Once the decimal result is calculated, the program should print the following output string and immediately loop back to main to accept another pair of operands:

$$n / d = x$$

Your main function take inputs in the following format, then immediately perform the operations specified above.

Points will be assigned as follows:

- 1. Main function correctly retrieves 2 input parameters and loops back to main (20 points)
- 2. Result string correctly prints input parameters in proper format (20points)
- 3. Result string correctly prints division result in proper format (30 points)
- 4. Division result is correct in all cases (30 points)

Hint: When printing a float value, printf requires double precision numbers (64 bits). You will not be able to print all 3 values (n, m, and the result) with a single printf command.

Submit your solution as a single ".s" file to Blackboard. Name the file "abc1234_p3.s", where abc1234 is your NetID.

*** Be sure to check http://github.com/cmcmurrough/cse2312 for useful code snippets ***