Name:

Please remember you must follow instructions exactly in this course. Failure to follow these instructions will result in a failing grade on this quiz.

Do your work in this directory:

/data/courses/ece\_1111/current/quizzes/qu\_03/lastname\_firstname

1. Write a C program called *p01.cc* that:

* reads an integer, a float and a single character from the command line arguments (copy what we did in class)
* assigns the integer to an integer variable named val1
* assigns the float to a double precision floating point viable named val2
* assigns the character’s decimal value to an integer variable named val3
* computes the ratio of val1 over val2 and multiplies this result by val3
* returns the correct result independent of the specific values. For example, if val1 is 6 and val2 is 12 and val3 is 2, the result should be 1.0. If val1 is 2, val2 is 20 and val3 is 5, the value should be 0.5.
* prints the result in the following format:

val1 divided by val2 and multiplied by val3 = <value>

Your answer should have 4 decimal places of precision (e.g., 0.5000).

Also, provide a spreadsheet in the same directory in a file named p01.xlsx that demonstrates this calculation. The inputs, in this case the first three arguments, should be cells A1, A2 and A3. The result should be placed in A4. Your numeric results should display 4 decimal places just like your C program.

Note that your code must be well-commented and well-formatted.

We use tools like Excel and MATLAB to rapidly prototype solutions and help us debug.