Name:

For this quiz, copy the examples I have been using in class (Makefile, example.h, and example.cc). Place your solution in *p01.cc*. Change the names of the files “example.\*” in the Makefile to “p01.\*” (e.g.., *p01.h* and *p01.cc*). Make sure p01.cc compiles with make and executes the example below correctly.

1. Write a C program called *p01.cc* that:
2. reads an integer, a float and a single character from the command line arguments (copy what we did in class)
3. assigns the integer to an integer variable named val1
4. assigns the float to a double precision floating point variable named val2
5. assigns the character’s decimal value to an integer variable named val3
6. computes val1 divided by val3 and multiplies this result by val2
7. returns the correct result independent of the specific values. For example, if val1 is 6, val3 is 12 and val2 is 2, the result should be 1.00. If val1 is 2, val3 is 20 and val2 is 5, the value should be 0.50.
8. prints the result in the following format:

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

Your answer should have 2 decimal places of precision (e.g., 0.50).

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 2 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.

Submit your quiz by depositing your work in the directory:

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