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.

1. Write a C program that converts the command line arguments to a binary coded decimal. Assume we always specify 4 bits on the command line. The following examples should work:

**myprog.exe 1 1 1 1**

**1111 = 15**

**myprog.exe 0 0 0 0**

**0000 = 0**

**myprog.exe 0 1 1 1**

**0111 = 7**

**myprog.exe 0 1 0 1**

**0101 = 5**

Your output must be exactly as shown above.

Also create an Excel spreadsheet that does the same calculation. Show that your results in C and Excel match exactly.

Note that your code must be well-commented and well-formatted. You will be graded on the accuracy and aesthetics (formatting and commenting) of your code.

Submit your answer by including two attachments in your email: (1) myprog.cc: your C program; (2) myprog.xlsx: your Excel file. Deviations from these requirements will be heavily penalized.

Using rapid-prototyping tools such as MATLAB or Excel is one of the most common ways we debug code.