**CSC 3210 – Assignment #5**

**Summer 2016**

**due Thursday, July 22th 11:59 pm**

Write a program that accepts a string from the user. You can assume the length of the string will be less than 30 characters and only alphabetical letters are entered.

Your program should then prompt the user to enter a letter (either lower case or upper case).

After this, you should 1) display the string with only lower case letters, 2) display the length of the string, 3) count the number of occurrences of the letter entered (upper or lower case), 4) store the string with the letter removed (upper and lower case occurrences) and display the shortened string, and 5) ask the user if they want to continue or not. Error checking on user input is required for the single letter input and the option to continue or not.

Here is an example:

*Please enter in a string of a maximum of 30 letters:* iloVeAssEmBlyLanguAge

*Please enter a letter:* e

The string in lower case is: iloveassemblylanguage

The length of the string is 21 characters

The letter e appears 3 times

The revised string is: ilovassmblylanguag

*Would you like to enter in another string (y/n)?* n

*Good bye.*

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Requirements:

1. Follow the requirements as described above.

2. Name your source file ‘lastname5.m’.

3. Submit the following to D2L by deadline:

• Lastname5.m

• Lastname5.doc (a word file containing your code)

4. Comment your code

Notes:

1. Make sure to declare word elements before declaring bytes or strings.

2. After using the scanf function, you can then use either the ld or ldub commands to access the input values. The command ld is for the word size elements and ldub is for the byte size elements.