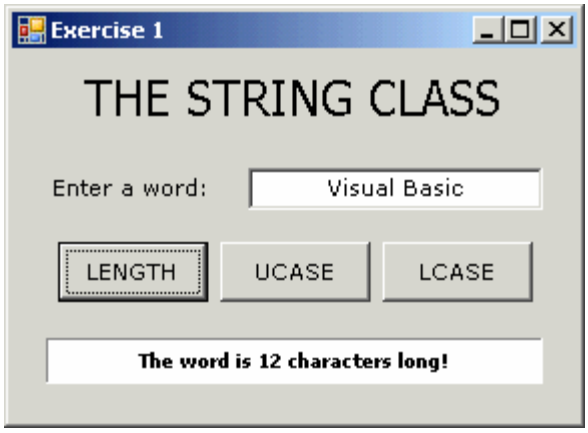
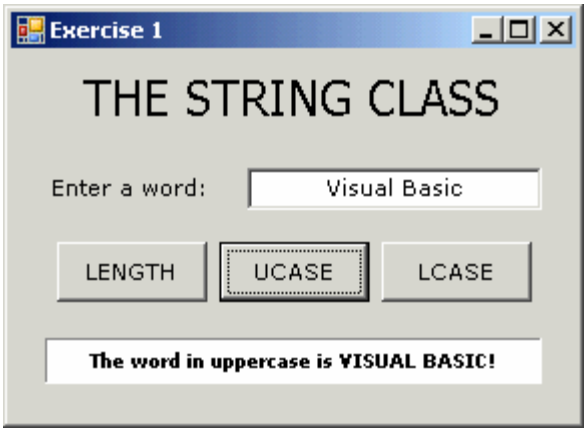
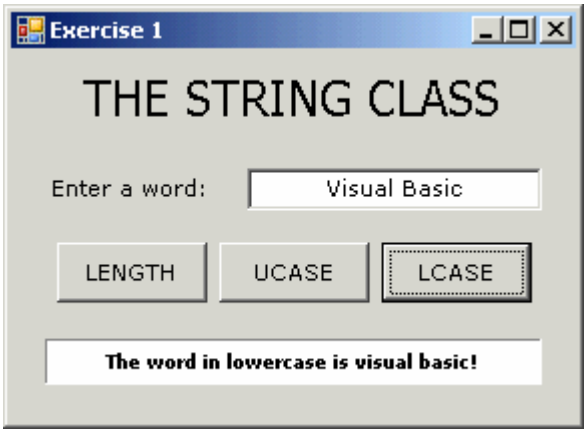
# WORKING WITH STRINGS:
## PROGRAMMING EXERCISES

1. Create a program that prompts the user for a word and outputs the length of the word when the user clicks the **LENGTH** button, the word in all uppercase when the user clicks the **UCASE** button or the word in all lowercase when the user clicks the **LCASE** button.

   Your program output should look something like this:



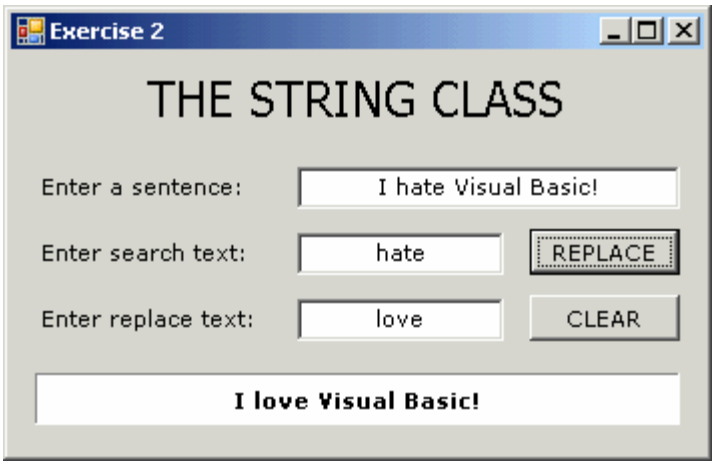




   Save the program in a folder called **Exercise 1** in your UNIT 5 folder.

2. Create a program that prompts the user for a sentence and replaces every occurrence of a word with a new word (both of which the user provides).

   Your program output should look something like this:

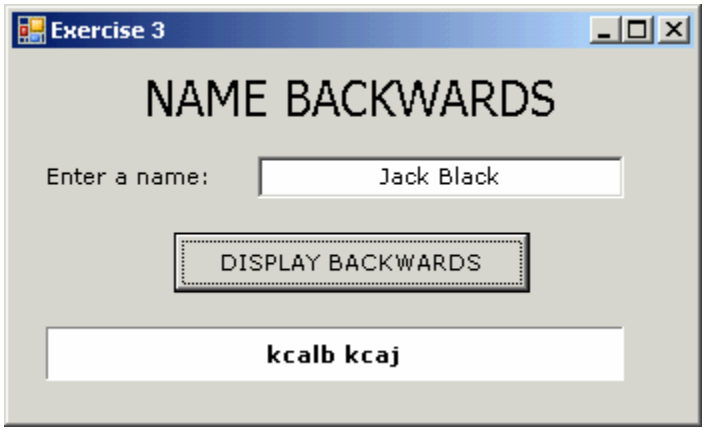



Save the program in a folder called **Exercise 2** in your UNIT 5 folder.

3. Create a program that prompts the user to enter his or her name and then displays the name backwards in all lowercase letters.

   *HINT:* You're going to need a loop and you will need to use the **Length** and **Chars()** methods.

   Your program output should look something like this:




   Save the program as **Exercise 3** in your UNIT 5 folder.

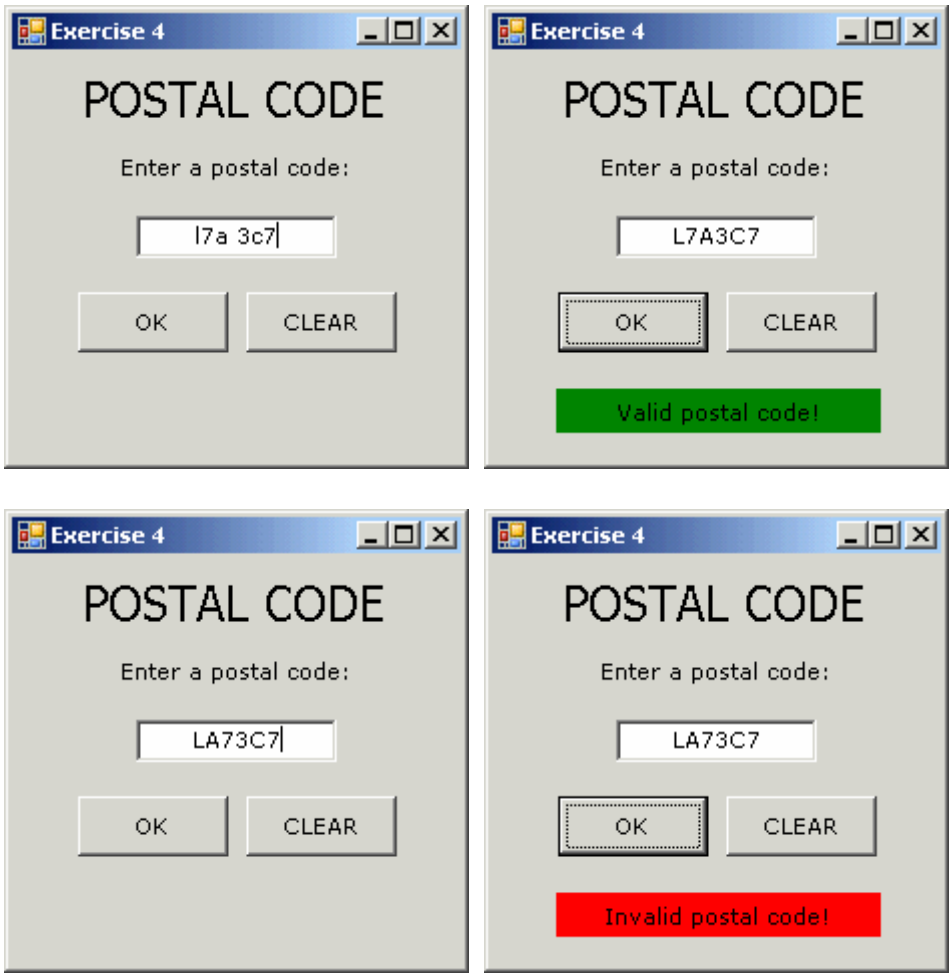
4. Write a program that prompts the user for a Canadian postal code and then checks whether or not the postal code that the user enters is valid. The postal code needs to follow the following pattern:

   `[A-Z][0-9][A-Z][0-9][A-Z][0-9]`

   You will need to also ensure that you remove any whitespace before, after or in between the postal code that the user enters. For example, if the user enters L7A 3C7, the whitespace in between the third character and the fourth character needs to be removed.

You will also need to account for the fact that the user may enter the postal code in lowercase letters. In order to account for this, you will simply need to convert the user's input to uppercase characters.

Your program output should look something like this:




Save the program as **Exercise 4** in your UNIT 5 folder.