**CS 131 Exercises**

**C#—A Beginner’s Guide**

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**CS 131 Exercises - Chapter 6 : String Manipulation**

**Exercise 1.** Create a C# Console project called NumOut.

* Define a double variable with the value 987654.321d.
* Use ToString parameters to display the variable three different ways: with two decimal points, as an integer, and as a currency value.

**Exercise 2.** Create a C# Console project called MailString.

* Define a method that takes two string arguments ‘firstname’ and ‘lastname’ as inputs.
* In the method body, use string concatenation and the substring method to create a new string to represent an email address.
* Use the first character of the first name, the first three characters of the last name, and the literal string “@abc.com” to build the new string, all lower case.
* Return the string value to the calling program, and print out the value.
* Call the method three times from Main, passing different values each time, and inspect the results.

Example: The input arguments (“Mark”,”Smith”) should the string “msmith@abc.com”.

**Exercise 3.** Create a C# Console project called CompareString.

* Define a method that takes two string arguments and returns bool.
* In the method body, compare the two strings to see if they are the same.
* Remove case sensitivity from the comparison by using the ToUpper (or the ToLower) method.
* If the strings are a match return true, if not return false.
* Call the method from Main and pass string values that match words but not case, e.g. “Hello” and “hello”.
* Verify that true is returned in this case and output this information to the console in an appropriate message.
* Call the method a second time with two strings that do not match. If the comparison returns false as expected, display an appropriate output message for the false case.

**Exercise 4.** Modify your Expressions project from Chapter 3

* Change the code in Main so that the variables ‘a’ and ‘b’ are initialized by user input.
* Use Convert.ToInt32() to change the user input values from string to integer before using them as parameter arguments (what happens if you do not?)