**CS 131 Exercises**

**C#—A Beginner’s Guide**

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**CS 131 Exercises - Chapter 4 : Methods and Scope**

**Exercise 1.** Create a new C# Console application called MethodCalls

* Replace the template-generated code with the code in figure 4-1 Method Implementation Practice.
* Create the missing methods CalculateAverage() and ShowAverage() so they receive the arguments that are passed from the existing calling instructions.
* Design CalculateAverage() so it returns the calculated average of equally weighted course grades.
* Design ShowAverage() so the output displays the following:

G. Treele average: 84

**Exercise 2.** Create a C# Console application called RefVal.

* Define a method that takes two arguments passed explicitly by reference.
* Declare and initialize two float variables. Display the variable values before and then after passing them to the method. Verify the variables have been assigned new values.
* Code example: 4-4 Explicitly Passing Arguments by Reference

**Exercise 3.** Create a C# Console application called ScopeLevels.

* In the program, declare three variables with the same name of type integer: one at class scope inside Main and two inside a method to demonstrate method and block level scope.
* Output the value of all three variables to show that they are different objects that contain different values.
* Code example: 4-6 Scope and Precedence.