Key Terms

Review Questions

1. Name and give the purpose of five data types available in Visual Basic.
2. What does *declaring a variable* mean?
3. What effect does the location of a declaration statement have on the variable it declares?
4. Explain the difference between a constant and a variable.
5. What is the purpose of the `Integer.Parse` method? the `Decimal.Parse` method?
6. Explain the order of precedence of operators for calculations.
7. What statement(s) can be used to declare a variable?
8. Explain how to make an interest rate stored in RateDecimal display in RateTextBox as a percentage with three decimal digits.
9. What are implicit conversions? explicit conversions? When would each be used?
10. When should you use `Try/Catch` blocks? Why?
11. What is a message box and when should you use one?
12. Explain why the `MessageBox.Show` method has multiple signatures.
13. Why must you use module-level variables if you want to accumulate a running total of transactions?

Programming Exercises

3.1 Create a project that calculates the total of fat, carbohydrate, and protein calories. Allow the user to enter (in text boxes) the grams of fat, the grams of carbohydrates, and the grams of protein. Each gram of fat is nine calories; a gram of protein or carbohydrate is four calories.

Display the total calories for the current food item in a text box. Use two other text boxes to display an accumulated sum of the calories and a count of the items entered.