6. Open the Average Score Solution (Average Score Solution.sln) file contained in the ClearlyVB2012\Chap07\Average Score Solution folder. Use what you learned in the chapter to debug the application. When you are finished debugging the application, close the Code Editor window and then close the solution.

7. Open the Beachwood Solution (Beachwood Solution.sln) file contained in the ClearlyVB2012\Chap07\Beachwood Solution folder. Use what you learned in the chapter to debug the application. When you are finished debugging the application, close the Code Editor window and then close the solution.

8. Open the Framington Solution (Framington Solution.sln) file contained in the ClearlyVB2012\Chap07\Framington Solution folder. Use what you learned in the chapter to debug the application. When you are finished debugging the application, close the Code Editor window and then close the solution.

procedure assigns the values entered in the two text boxes to two variables. The procedure should determine whether the value in the `intNum1` variable is greater than the value in the `intNum2` variable. If it is, the procedure should swap the values in both variables. In other words, the `intNum1` variable should always contain a value that is less than or equal to the value in the `intNum2` variable. Complete the procedure accordingly. Save the solution and then start and test the application. Close the Code Editor window and then close the solution.

10. The manager of Willow Springs Health Club wants a program that allows her to enter the number of calories and grams of fat contained in a specific food. The program should calculate and display two values: the food's fat calories and its fat percentage. The fat calories are the number of calories attributed to fat and are calculated by multiplying the food's fat grams by the number 9; this is because each gram of fat contains nine calories. The fat percentage is the ratio of the food's fat calories to its total calories. You calculate the fat percentage by dividing the food's fat calories by its total calories and then multiplying the result by 100. The fat percentage should be displayed with zero decimal places. Create a Visual Basic Windows application. Use the following names for the solution and project, respectively: Willow Solution and Willow Project. Save the application in the ClearlyVB2012\Chap08 folder. Change the name of the form file on your disk to frmMain. vb. If necessary, change the form's name to frmMain. Create a suitable interface. Code the application. (Hint: When coding the application, keep in mind that division by zero will produce a run time error.) Save the solution and then start and test the application. Close the Code Editor window and then close the solution.

11. While carpet shopping for her living room, Carol Jones noticed that some carpet prices are per square yard, while others are per square foot. Carol wants a program that calculates and displays the area of a floor in either one or both of the following measurements: square feet or square yards. Use two check boxes to allow Carol to select the measurement type: one labeled Square feet and one labeled Square yards. Carol will enter the floor's measurements in feet. Create a Visual Basic Windows application. Use the following names for the solution and project, respectively: Carpet Solution and Carpet Project. Save the application in the ClearlyVB2012\Chap08 folder. Change the name of the form file on your disk to frmMain.vb. If necessary, change the form's name to frmMain. Create the interface and then code the application. Display the areas with two decimal places. Save the solution and then start and test the application. Close the Code Editor window and then close the solution.

12. When you either work for an employer or are self-employed, you must pay payroll taxes that fund Social Security and Medicare. These taxes are called FICA taxes because they are collected under the authority of the Federal Insurance Contributions Act. The 2012 FICA tax rate is 7.65% of your gross earnings for the year. The 7.65% includes a 6.2% contribution to the Old-Age, Survivors, and Disability Insurance (OASDI) program and a 1.45% contribution to Medicare's Hospital Insurance (HI) program. The 6.2% contribution is on the first $110,100 of earnings for the year; there is no earnings limit for the 1.45%. Create a Visual Basic Windows application. Use the following names for the solution and project, respectively: FICA Solution and FICA Project. Save the application in the ClearlyVB2012\Chap08 folder. Change the name of the form file on your disk to frmMain.vb. If necessary, change the form's name to frmMain. Create an interface that allows the user to enter two values: the user's year-to-date earnings and the earnings for the current pay period. The application should use this information to calculate and display the FICA tax to deduct from the current pay period's check. Code the application. Save the solution and then start and test the application. Close the Code Editor window and then close the solution.

13. In this exercise, you modify the application from Chapter 6's Exercise 15. If you did not complete that exercise, you will need to do so before you can complete this exercise. Use

Windows to copy the Sun Solution folder from the ClearlyVB2012\Chap06 folder to the ClearlyVB2012\Chap08 folder. Open the Sun Solution (Sun Solution.sln) file contained in the ClearlyVB2012\Chap08\Sun Solution folder. Modify the code so that it pays the employee time and one-half for any hours worked over 40. Save and then start the application. Test the application using 35.5 as the hours worked and 9.56 as the pay rate. Now test the application using 44 as the hours worked and 9.56 as the pay rate. Close the Code Editor window and then close the solution.

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14. Ned's Health Club wants an application that calculates and displays a member's monthly dues. Each member is charged a basic fee of $25 per month. However, there are additional monthly charges for golf ($10), racquetball ($5), and tennis ($20). The interface should include three check boxes for the additional charge information. Use a text box for the member's name and a label to display the monthly dues. Create a Visual Basic Windows application. Use the following names for the solution and project, respectively: Health Solution and Health Project. Save the application in the ClearlyVB2012\Chap08 folder. Change the name of the form file on your disk to frmMain.vb. If necessary, change the form's name to frmMain. Create the interface. Include the image stored in the ClearlyVB2012\Chap08\Exercise.png file. (The image was downloaded from the Open Clip Art Library at *http://openclipart.org*.) Code the application. Save the solution and then start and test the application. Close the Code Editor window and then close the solution.

FIGURE THIS OUT

15. Open the FigureThisOut Solution (FigureThisOut Solution.sln) file contained in the ClearlyVB2012\Chap08\FigureThisOut Solution folder. Start the application. Enter 2 as the first number and 5 as the second number, and then click the Display button. Enter 7 as the first number and 6 as the second number, and then click the Display button. Stop the application. Open the Code Editor window and study the btnDisplay_Click procedure. What task does the procedure perform? What is the purpose of the selection structure? What is the purpose of the block-level variable? Why is the variable necessary? Close the Code Editor window and then close the solution.

FIGURE THIS OUT

16. Open the SwatTheBugs Solution (SwatTheBugs Solution.sln) file contained in the ClearlyVB2012\Chap08\SwatTheBugs Solution folder. Open the Code Editor window and study the code. Start and then test the application. Notice that the code is not working correctly. Locate and correct any errors. Close the Code Editor window and then close the solution.