

1. enter sale 1 and sale 2
2. calculate the sum by adding together sale 1 and sale 2
3. if the sum is greater than 1200, do this:  
calculate the bonus by multiplying the sum by 10%  
otherwise, do this:  
calculate the bonus by multiplying the sum by 8%
4. end If
5. display the bonus

create an independent Sub procedure that will handle Steps 2 and 3

**Figure 16-26** Algorithm for Exercise 2  
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3. In this exercise, you modify the Favorite Title application coded in the chapter. Use Windows to make a copy of the Favorite Title Solution folder. Save the copy in the ClearlyVB2012\Chap16 folder. Rename the copy Favorite Title Solution-MODIFY THIS. Open the Favorite Title Solution (Favorite Title Solution.sln) file contained in the Favorite Title Solution-MODIFY THIS folder. Open the designer window. Modify the interface and code to allow the user to also enter the title of his or her favorite movie. Save the solution and then start and test the application. Close the Code Editor window and then close the solution. ◀ MODIFY THIS
4. Open the Grade Solution (Grade Solution.sln) file contained in the ClearlyVB2012\Chap16\Grade Solution folder. (The image in the picture box was downloaded from the Open Clip Art Library at <http://openclipart.org>.) The application should display a letter grade, which is based on the average of three test scores. If the average is at least 90, the grade is A. If the average is at least 80 but less than 90, the grade is B. If the average is at least 70 but less than 80, the grade is C. If the average is at least 60 but less than 70, the grade is D. If the average is below 60, the grade is F. Code the application, using an independent Sub procedure to both determine and display the letter grade. Save the solution and then start and test the application. Close the Code Editor window and then close the solution. ◀ INTRODUCTORY
5. In this exercise, you modify the Grade application from Exercise 4. Use Windows to make a copy of the Grade Solution folder. Save the copy in the ClearlyVB2012\Chap16 folder. Rename the copy Modified Grade Solution. Open the Grade Solution (Grade Solution.sln) file contained in the Modified Grade Solution folder. Open the designer and Code Editor windows. Currently, the independent Sub procedure both determines and displays the letter grade. Modify the code so that the Sub procedure determines the letter grade but does not display it. The letter grade should be displayed by the btnDisplay\_Click procedure. (Hint: If the Code Editor indicates that a String variable is being passed before it has been assigned a value, assign the String.Empty constant to the variable in its Dim statement.) Save the solution and then start and test the application. Close the Code Editor window and then close the solution. ◀ INTRODUCTORY
6. Open the Temperature Solution (Temperature Solution.sln) file contained in the ClearlyVB2012\Chap16\Temperature Solution folder. Code the application so that it uses two independent Sub procedures: one to convert a temperature from Fahrenheit to Celsius, and one to convert a temperature from Celsius to Fahrenheit. Save the solution and then start and test the application. Close the Code Editor window and then close the solution. ◀ INTERMEDIATE