

**Department of Computer and Information Science**  
**CIS 294 – Programming in Visual Basic**  
**Fall 2006**

**Programming Assignment 2**  
**Posted: 10/17/2006**  
**Due: 10/31/2006**

**Problem 1** (refer to Exercise 7.6 in the textbook, page 331)

You need to create a class for the form using visual programming (as done in the lecture) and update it to associate event handlers to the three buttons Regular, Special, and Super+. The class should include a function Total that accepts as parameters the grade (String) and number of gallons (Double) and returns the total price (Decimal). This function should include a Select ... Case statement to test the grade gas.

Deliverables:

- Code for the class (hardcopy and softcopy)
- 3 Screenshots of the form (showing execution for regular, special, and Super+)

**Problem 2**

Let us consider the GradeBook class in Figure 7.5. Assume that the user gives several grades as inputs (use a sentinel for the loop). Each grade has a value between 0 and 100, inclusive. Write a method DisplayTopBottomGrades that displays the number of grades, average grade, the top 3 grades, and the bottom 3 grades.

Deliverables:

- Code for the GradeBook class and the module that uses it (hardcopy and softcopy).
- Screenshot showing the execution of the module (i.e., displayed results)
- UML activity diagram for the DisplayTopBottomGrades method.

**Textbook:**

Visual Basic 2005 – How To Program -, 3rd edition, Prentice Hall (ISBN: 0131869000).

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