FALL 2007
CS 113: Introduction to Computers
Assignment 12
Due: December 6, 2007
Arrays
(16 points)
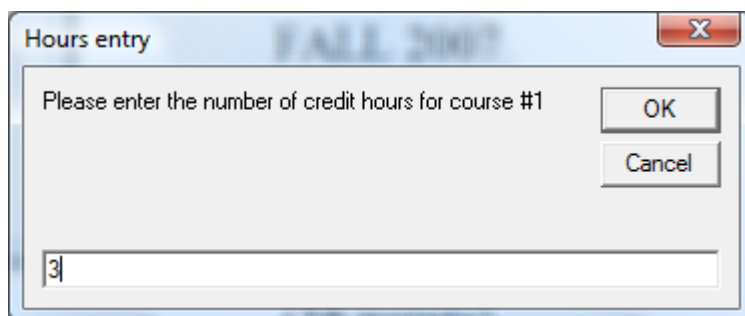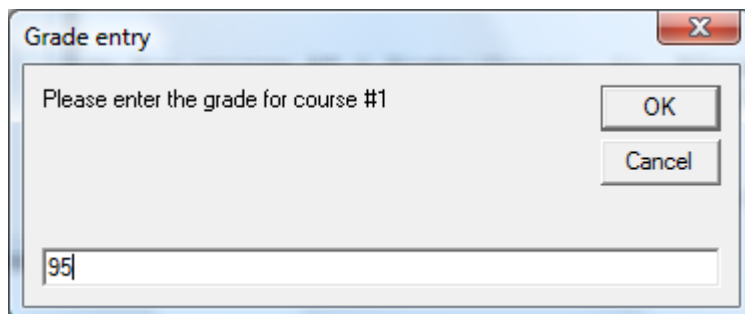
Objectives: Learn how to create and use arrays.

What to do?

Read sections 7.1-7.2 of the textbook.

Design a VB program that calculates a GPA using information about three courses. The program interactively requests a grade (out of 100) and a number of credit hours for each course using the following dialogs generated by the `InputBox` function:

Declare two arrays of integers: one to store the grades, the other one to store the number of credit hours for each course:

```
Dim numPoints(3) As Integer
Dim numHours(3) As Integer
```

Use a FOR...NEXT loop to enter all course information and to calculate the GPA. To calculate a GPA, declare two variables:
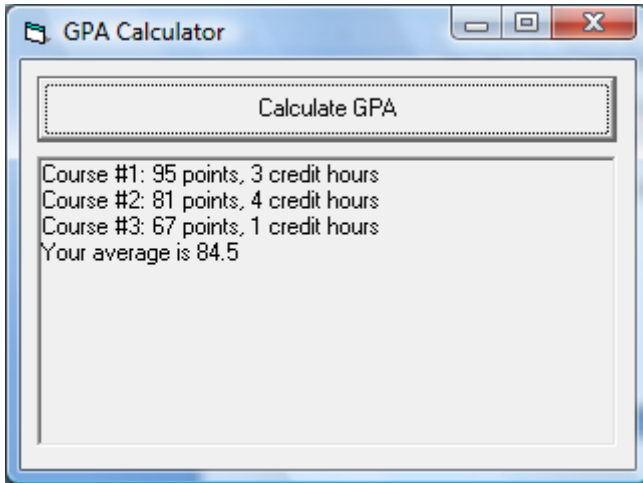
```
Dim numTotalPoints As Single
Dim numTotalHours As Single
```

On each iteration of the loop, update these variables as follows:

```
numTotalPoints = numTotalPoints + numPoints(i) * numHours(i)
numTotalHours = numTotalHours + numHours(i)
```

Upon the completion of the loop, calculate the GPA as `numTotalPoints / numTotalHours`.

The interface of the completed program along with its output is shown below.

Design a VB program with the interface as shown above. Make sure the objects in your program are as follows:

Object	Property	Setting
frmGPA	Caption	GPA Calculator
cmdCalculateGPA	Caption	Calculate GPA
picResult		

Save your work.

What to submit

Use Blackboard Vista to submit the Visual Basic Form File with your program.