

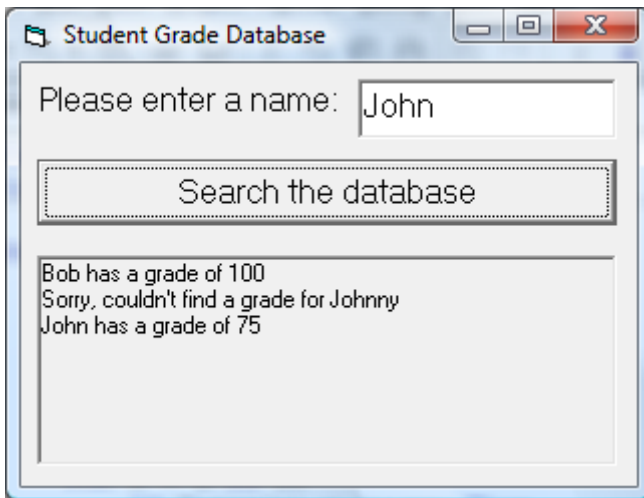
FALL 2007
CS 113: Introduction to Computers
Assignment 13
Due: December 13, 2007
Searching
(20 points of extra credit)

Objectives: Learn how to implement and apply a searching algorithm.

What to do?

Read section 7.4 of the textbook.

Design a VB program that searches a database of student grades by the student's name. If the name is found, the program displays the corresponding grade; otherwise it displays an error message:



Declare two form-level arrays, one to store student names, the other to store their grades:

```
Dim Names(10) As String  
Dim Grades(10) As Integer
```

In the `Form_Load()` event procedure, initialize these arrays with 10 grades and 10 names as follows:

```
Names(1) = "Bob"  
Grades(1) = 100  
Names(2) = "John"  
Grades(2) = 75  
...
```

In the click event procedure for the command button, use a `FOR...NEXT` loop to search for the grade of the student whose name is entered in the text box.

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

Object	Property	Setting
frmGradeDatabase	Caption	Student grade database
txtName		
label1	Caption	Please enter a name
cmdSearch	Caption	Search the database
picResult		

Save your work.

What to submit

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