LAB ASSIGNMENT #8

Points: : 10 points
Due Date: : April 9 2020 - 3:00pm
Submissions: : Canvas

GOALS:

- To solve the given problem using Arrays, Loops, and IF statements.

Problem

Create a VB console application “GradeArray” to do accept scores for a class of students and then to calculate the average of the scores. Your program is expected to fulfill the following requirements:

1) Use an array to store the grades (type is Double) - assume the class size is 6 students. Name the array grades.
2) Prompt the user to enter 6 grades. Prompt the user to enter grades between 0 and 100 but you do not need to check for correct input (you may assume perfect input). This is to be done in a loop with the grades stored in an array that you previously declared.
3) After all the grades have been entered and stored in the array, print out all of them. Use a loop to do this.
4) Next, process the array to determine the average score of the class. This requires the use of a loop to access all of the array elements. You need to sum up the values and then divide by 6, since there are six grades.
5) Display the results. Your output format should be nearly the same as what is shown below.
6) Test your program with the following input:

68 <enter> 78 <enter> 96 <enter> 82 <enter> 74 <enter> 78 <enter>

Notes:

A) Your solution must use three (3) For Loops and no additional loop constructs.
B) When printing the grades to the screen use the following statement to provide formatted I/O.
   Console.Write("{0,4}", grades(index))
Extra Credit:

Compute the highest grade (score) and/or the lowest grade (score) of the six scores entered. This must be done in the same loop where the average is computed. To get the most extra credit, find both the high and low scores. For a lesser amount of extra credit, find EITHER the high or the low score.

Submission:

1) Copy and paste your source code into a word document Lab8-yourLastName.docx. Snap-shot your test-run(s) and paste in the same document.
2) Upload Lab8-yourLastName.docx to Canvas.