This assignment is to get you proficient in arrays. Please write a program to solve the following formula to find standard deviation for a set of scores. Sample program is given below.

\[
\sigma = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}
\]

\[
\sigma = \text{lower case sigma} \\
\sum = \text{capital sigma} \\
\bar{x} = \text{x bar}
\]

Here are the steps needed to solve this formula:

1. Enter a set of scores;
2. Find the average of these scores;
3. Find the deviation of each of the scores from the mean and square the difference;
4. Sum all the deviation squared;
5. Divide the sum by total number of scores minus 1;
6. Find the Square root of the result, which is exactly the standard deviation.

Please submit:

1. Program listing; and
2. The screen captures (see the Appendix).

- Your program should begin with a comment section that would include the following:

  PROGRAMMERS NAME:__________________________________________
  STUDENT ID:________________________________________________
  CLASS: ASSIGNMENT #:______________________________________
  DATE DUE:__________ DATE TURNED IN:________________________

- **Note:** Please send the files you created to **Blackboard**.
• Appendix: Examples of Screen Captures