

CSCI 1015 Assignment 9

Write a program that uses 2 one-dimensional arrays to store the highest and lowest for 15 test scores for 7 students. The program should output the average high, average low, standard deviation, and highest and lowest test score among the test scores. Your program must consist of the following methods:

- a. Method **getData**: This method reads and stores the data in the one-dimensional array (hint: call the method twice to read the highest and lowest of each student separately).
- b. Method **avgHigh**: This method calculates and returns the average high test score among the test.
- c. Method **avgLow**: This method calculates and returns the average low test scores.
- d. Method **indexHighTemp**: This method returns the index of the highest test in the array.
- e. Method **indexLowTemp**: This method returns the index of the lowest test in the array.(These methods must all have the appropriate parameters)
- f. Method **stndDev**: This method return the standard deviation from the highest and lowest scores.

NOTE:

Perform input validate to ensure that scores less than 0 are not allowed or scores greater than 100 are not allowed

Sample Input/Output:

Enter Students1 Test Scores: 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100

Enter Students2 Test Scores: 100 100 93 100 100 100 87 100 100 100 100 87 99 92 93

```
>> High test for students;
>> 100 100 82 60 73 92 89 90 67 90 70 42 92 32 89
>> Low test for each students;
>> 100 87 50 55 45 75 80 82 50 80 37 20 80 10 80
>> Average high temperature: 77.86      Standard Deviation: 20.44458
>> Average low temperature: 62.06      Standard Deviation: 26.25824
>> indexHigh = 0, Highest test Score: 100
>> indexLow = 13, Lowest test Score: 10
```

Code Template: please download the code template in D2L and add your own code.

Grading: please read the syllabus about the coding style and rubric. All assignments will be graded based on several aspects from the rubrics.