**APHelper2**

**Goal:** The ultimate goal of this program is to calculate the Variance and Standard Deviation of a data set. Use the required helper methods and definitions below to complete the assignment.

**Mean –** average of all numbers in a data set

**Variance –** The average of the squared distances from the mean. In other words, for each number in the set, subtract the mean and square the result. Average the results.

**Standard Deviation**  - The square root of the variance

**Required Helper Methods**

1. *mean(double[] arry)*
2. *variance(double[] arry)*
3. *standardDeviation(double variance)*
4. *standardDeviation(double[] arry)*

**Directions:**

1. Calculate and print the mean, variance, and standard Deviation (using both methods) of the first 10 multiples of 2.

**Correct Printout:**

Mean: 11.0

Variance: 33.0

Standard Deviation: 5.745

Standard Deviation (Array Parameter): 5.745