Skill Assignment 2

This is an individual skill assignment. You may receive help from other class mates, but you may NOT copy their work. Copied work will be considered plagiarism and dealt with according to the syllabus and university policy.

Objective: For this skill assignment, you will demonstrate that you can properly create a class containing a static utility function. You will define a value returning method that will accept as an argument an ArrayList of Double type values and will return a single double value that will be the computed average of all values contained within the ArrayList. This class must function correctly given the test harness Driver.java class provided by the professor. This will include following proper naming, formatting and style conventions as well as using necessary functions and classes in the Java standard library.

Description: Decomposition of requirements into properly defined modules, functions, and classes is crucial for any program. Being able to manipulate these separate pieces is an obviously important skill for programmers. This program will consist of two properly defined classes, one given to you (Driver) and one created by you (SkillAssignment2) that passes and returns expected values as necessary between them to fulfill the requirements.

Assignment:

- Create a command-line Java class that performs the following:
  - As a static utility method, match these defined expectations
    - Define a single parameter value that is an ArrayList of type Double
    - Calculate the correct average value of all elements contained within the ArrayList
      - This function should work regardless of the actual number of elements contained within the ArrayList – The test harness provides 4 values, but your function should calculate the correct answer if any other number of values is used
    - Return the calculated average value of all ArrayList elements as a single double value
  - See Table 1 below for the expected output using the test harness Driver class with your SkillAssignment2 utility class function

- Upload your .JAVA code file to the appropriate Blackboard assignment

```
The average value is: 90.0
```

Table 1 – Example Input/Output