CS115 Lab 4

Do the lab in pair programming: two persons team up, one directs and the other does coding.

1. Summing all the numbers in an array

Write a method that sums all the integers in an array of integers and returns the sum. Embed the method in an application (with a main method) and use

\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\} to test the method.

2. Finding the smallest element

Write a method that finds the smallest element of an array of integers. Embed the methods in an application (with a main method) and use \{1, 2, 4, 5, 10, 100, 2, -22\} to test the method.

3. Displaying an integer reversed

Write the following method to display an integer in reverse order:

```
public static void reverse (int number)
```

Embed the method in an application. For example, reverse(3456) displays 6534.

Further, write the following method to return an integer reversed:

```
public static int reverseInt (int number)
```

Embed the method in an application. For example, reverse(3456) returns 6534.

4. Averaging an array by overloading

Write two overloaded methods that return the average of an array with the following signatures:

- public static int average(int[] array)
- public static double average(double[] array)

Embed the methods in an application (with a main method) and use \{1, 2, 3, 4, 5, 6\} and \{6.0, 4.4, 1.9, 2.9, 3.4, 3.5\} to test the methods.