Homework 9

**Name: Peter Dobbs**

**MU ID: 005803169**

**Date: 9 April, 2015**

**Homework Problem 1**

**Requirements**

Create a program that displays the sum of the command-line arguments

**Design**

*main*

for loop that adds the numbers entered into command line and println that displays the sum.

**Iterative Development Steps**

1. Create main method in class that takes the values from the command line and adds them and displays the sum.

**Tests**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description of test | Input | Expected result | Actual result | Cause |
| method1 normal input | 1 2 3 4 5 | 15 | 15 | Correct code |

**Homework Problem 2**

**Requirements**

Use a five by ten array to display five rows, one of 10 zeros, one of 10 ones, one of 10 twos, one of 10 threes, and one of 10 fours.

**Design**

*main*

Initialize the five by ten array and assign the appropriate values to the rows and columns using for loops. Use nested for loops to display the rows and columns as a table.

**Iterative Development Steps**

1. Initialize the five by ten array.
2. Create for loops that store the appropriate values into the appropriate rows and columns
3. Create nested for loops that display the values as a table.

**Tests**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description of test | Input | Expected result | Actual result | Cause |
| method1 normal input | n/a | 0 0 0 0 0 0 0 0 0 0  1 1 1 1 1 1 1 1 1 1  2 2 2 2 2 2 2 2 2 2  3 3 3 3 3 3 3 3 3 3  4 4 4 4 4 4 4 4 4 4 | 0 0 0 0 0 0 0 0 0 0  1 1 1 1 1 1 1 1 1 1  2 2 2 2 2 2 2 2 2 2  3 3 3 3 3 3 3 3 3 3  4 4 4 4 4 4 4 4 4 4 | Good code |

**Homework Problem 3**

**Requirements**

Create arrays that hold the information related to specific months.

**Design**

*class Information*

public String display(String n, int d, String b)

returns the given information in the form of a String.

*class TestInformation*

public static void main(String[] args)

Create and fill the arrays with information. Call Information.display() with the important information within a for loop.

**Iterative Development Steps**

1. Create the arrays for month information and the Information.display() method that arranges the information into a String statement of the information.
2. Use the display method to show the information all together.

**Tests**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description of test | Input | Expected result | Actual result | Cause |
| method1 normal input | n/a | Information about months | Information about months | Correct code |

**References**

An Introduction to Programming Using Java, Anthony J Dos Reis.