**Module 4 Option 1 Critical Thinking Assignment**

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CSC320: Programming I

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**Source Code**

import java.util.Scanner;

import java.util.Arrays;

public class Main {

public static void main(String args[]) {

Scanner userInput = new Scanner(System.***in***);

double[] userValues = {0,0,0,0,0};

double totalValue;

double tempInput;

int counter;

System.***out***.println("Please provide 5 numbers, select 'enter' after each.");

System.***out***.println("Numbers need to be greater than 0!");

counter = 0;

tempInput = 0;

while (counter < 5) {

int innerCounter = 0;

while (innerCounter < 3) {

System.***out***.println("Number " + (counter + 1) + ":");

tempInput = userInput.nextDouble();

if (tempInput > 0) {

userValues[counter] = tempInput;

++counter;

innerCounter = 4;

} else {

System.***out***.println("Please enter a number greater than zero. You have two more tries");

++innerCounter;

}

}

if (innerCounter == 3) {

System.***out***.println("You ran out of tries.");

counter = -1;

break;

}

}

if (counter == -1) {

System.***out***.println("Please try again using postive numbers!");

} else {

Arrays.*sort*(userValues);

totalValue = 0;

for (int i = 0; i < userValues.length; ++i) {

totalValue += userValues[i];

//System.out.print(userValues[i] + ":");

}

System.***out***.println("Total: " + totalValue);

System.***out***.println("Average: " + (totalValue/(userValues.length)));

System.***out***.println("Max: " + userValues[userValues.length -1]);

System.***out***.println("Minimum: " + userValues[0]);

System.***out***.println("20% interest: " + totalValue\*.2);

}

userInput.close();

}

}

**Screenshot**

