

Program 3

COP-2250 - Java Programming - Summer C 2011, Ref 20025, Section U1

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Program 1 Due on July, Wed 6, 2011 at the beginning of class.

Turn in the signed source code on paper, and email me the source code.

Make sure the program is properly documented and aligned uniformly, looking professionally, I will take points off if it not.

Include the following header in every program:

```

/*****
Author      : Your Name
Course      : COP 2250 M-W 11:00 AM
Professor   : Michael Robinson
Program #   : Program Purpose/Description
              {A brief description of the program }
Due Date    : MM/DD/YYYY
Certification:
I hereby certify that this work is my own and none of it is the work of any other person.
.....{ your signature }.....
*****/

```

Purpose of this program:

- Implement the Math methods.
- Implement a 2Dimensional array

How:

**** NOTE ****

Each task must be done inside its own method.

Use main ONLY to create variables and call the methods.

- From main() call methods passing parameters where you will implement the following Math methods:

examples of parameters:

```

int i = 7;
int j = 9;
double x = 72.5;
double y = 0.34;

```

examples of calling the methods and passing the parameters:

```

processAbsoluteValues(i, j, x, y );
processRoundValues(i, j, x, y );
processCeilingValues(i, j, x, y );
processFlooringValues(i, j, x, y );
processMinimunValues(i, j, x, y );
processMaximunValues(i, j, x, y );
processTrigFunctionsValues(i, j, x, y );
processExponentialValues(i, j, x, y );
processLogValues(i, j, x, y );
processPowerValues(i, j, x, y );
processSquareRootsValues(i, j, x, y );
processRandomValues(i, j, x, y );

```

In each methods do computations with the data received implementing the corresponding Math method, as presented in class.

Multidimensioanal Arrays

Worth 4 points

- Create a two dimensional array of 10 rows by 10 columns to store integers
 - Load the array with data, in each location place the total of $(x+y)$, that is each (row+column) location
 - Add all the diagonal values in this array (from 0,0 to 9,9), and print the total
 - Add all the diagonal values in this array (from 0,9 to 9,0), and print the total
 - Subtract the values of the second computation from the first one, and print the total.
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