JAUA ASSIGNMENT

Java Assignment 1: Basic Console Applications

Ver 3.1   Last Updated: 8/11/2021 6:15 PM

Your first assignment in java is to create 3 console applications. Complete the following tasks. Each one will feature interaction with the user via keyboard input.

1. **Square Feet to Square Meters:**
   Take as a input the number of square feet for a building or floorplan. Convert the square feet to square meters. Test using a test plan. Don't worry about input that is out of range or alpha-numeric input.

2. **Free throw percent finder**
   Allow the user to enter in the results of 5 different free throws from a basketball game. Have them enter in a 1 if they make the free throw and a zero if they miss. Print out the percentage of successful free throws when they are finished. The percentage should be from 0-100.
   Example,
   Please enter in ft1, 1 if made, 0 if missed
   0
   Please enter in ft2, 1 if made, 0 if missed
   1

Please enter in ft3, 1 if made, 0 if missed
0
Please enter in ft4, 1 if made, 0 if missed
0
Please enter in ft5, 1 if made, 0 if missed
1
You made 40% of your free throws, better practice!

Don't worry about inputs out of range or alpha-numeric input

3. **Number analyzer**
   Have the user enter in 3 numbers.
   Give the sum of the numbers on one line.
   Give the product of the numbers on another line.
   Give the result of the formula 3a + 2/b + c-5 on another line
   Print out the largest number on the 4th line

   BONUS: Find the GCF of the three numbers.
   Do NOT use Euclid's algorithm for GCF, only looping!!!!
   Example:
   Please enter in value for a:
   13
   Please enter in value for b:
   -6.5
   Please enter in value for c:
   1

   SUM = 7.5
   PRODUCT = -84.5
   FORMULA = 34.69230769230769
   LARGEST = 13.0

   If there are more than one highest number, just print out the
   highest value. Don't worry about inputs where b is 0 (this will

create a divide by 0 error for the formula from 3c.)

Don't worry about alpha-numeric input.

4. Make a typed test plan for Problem #3.
   Your test plan MUST include 5 possible different sets of 3 values including;
   Some with positives and negatives
   Some with decimals and some where there are two values that are the largest

For the bonus, here are some test values...
100
80
15
GCF: 5
12
28
100
GCF: 4

Project Name	Assign 1 – Basic Console Apps
Class 1 Name	SquareFeet
Class 2 Name	FreeThrow
Class 3 Name	Calculations

Rubric	
AlgoPract1-1	35
AlgoPract1-2	35
AlgoPract1-3	35
Test Plan for 1-3	20
TOTAL	125