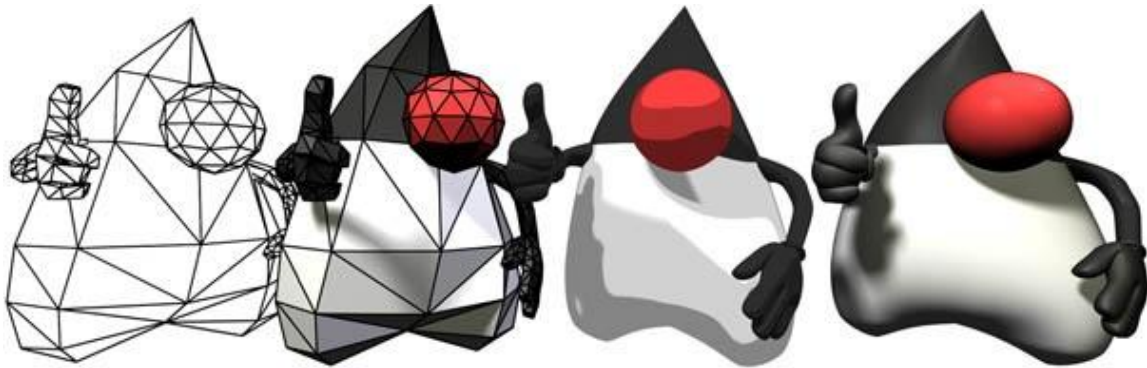


# JAVA Assignment



## Java Assignment 1: Basic Console Applications

Your first assignment in java is to create 3 console applications. Convert from square feet to square meters and solve 2 problems problems(2-3) from the algorithm practice worksheet #1. 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 4<sup>th</sup> line

BONUS: Find the GCF of the three numbers.

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

<b>Project Name</b>	Assign 1 – Basic Console Apps
<b>Class 1 Name</b>	SquareFeet
<b>Class 2 Name</b>	FreeThrow
<b>Class 3 Name</b>	Calculations

<b>Rubric</b>	
<b>AlgoPract1-1</b>	<b>35</b>
<b>AlgoPract1-2</b>	<b>35</b>
<b>AlgoPract1-3</b>	<b>35</b>
<b>Test Plan for 1-3</b>	<b>20</b>
<b>TOTAL</b>	<b>125</b>