

## Assignment 1

Due by 1/27/2017, Friday Midnight through Canvas

### Instructions:

- We have reviewed the related material in class, specifically about:
  - Classes
  - Constructors
  - Instantiating Objects
- Reading material on these topics that supplement the lecture slides can be found here <https://docs.oracle.com/javase/tutorial/java/javaOO/index.html>
- The following Sections from the link above in the Java Tutorials will be particularly helpful
  - The Sections Under *Classes*
  - *Creating Objects*

#### Part 1:

- Two template classes have been provided. A *Fraction* Class and a *Point* Class
- It is noted in the *Fraction* file, but it is not a requirement to keep the Fractions Simplified
- Complete the methods that are not implemented (labeled **TO-DO** inside the method)
- The templates provide a lot of comments and guidance

#### Part 2: Challenge

- Create a new class called *PrintingAsterisks* (and also write an accompanying test program) that includes the following functionality:
  - Prompt the user to enter “number of lines to print” (Number should not be less than 7. If user enters smaller value, prompt the user to enter the correct value).
  - Display a list of 25 asterisk per line (For example if you have 8 lines, show 200 asterisks on 8 lines with each new line shifted right by a tab amount; You may use a while loop). Note the first line will be shifted one tab to the right, second will be shifted 2 tabs to the right and so on .... See sample run below.
- Submit the new class and test program on Canvas (along with updated *Point* and *Fraction* classes)

Enter Lines to display: 8

```
*****
*****
*****
*****
*****
*****
*****
*****
```