

**ISTE-120 – Computational Problem Solving
for the Information Domain I
Homework Assignment 1 (HW01)**

PRELIMINARIES

Before you can do this assignment, you must complete a few preliminary steps.

- Configure VSCODE and Java as stated in document (VSCODE&JAVA_How_TO.pdf).
- Download and install the graphics package used in Day2
 - Download the Drawing.jar library from myCourses (Drawing)
 - Connect it to VSCODE (See also VSCODE&JAVA_How_TO.pdf)

DELIVERABLE

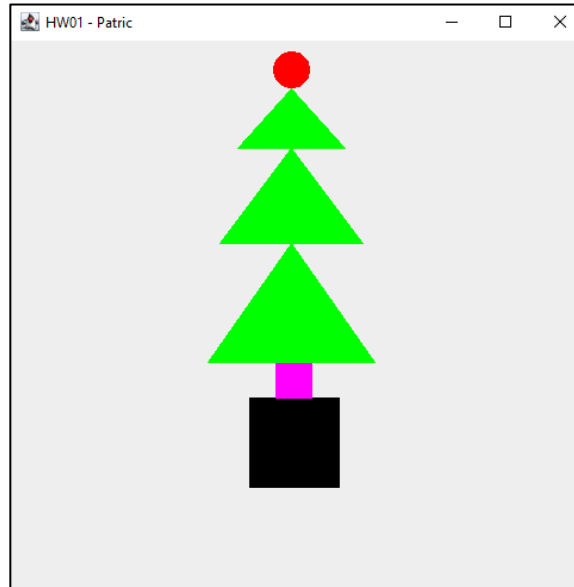
Keep all of your files in one folder named HW01. Zip your files together:

- Windows: Right-click this folder, select “Send To” and then “Compressed (zipped) folder” from the drop down list
- Mac: Right-click this folder, select “Compress <folder name>”

Submit the zip file to the MyCourses assignment folder for this homework. You will do this for all of your homework assignments this semester. Homework **MUST** be submitted on time to receive full credit. Homework submitted to the “late” assignment folder will receive a maximum grade of 80%. Homework not submitted to either assignment folder will receive no credit.

PROBLEM STATEMENT

Using the three shapes provided in the drawing library (Circle, Square, and Triangle), create an image of a tree similar to that shown below.



DETAILS

1. Download the **Drawing Library** from myCourses and connect it to VSCODE, as detailed above.
2. Your tree should contain more than five different objects, and at least one from each of the three classes.
3. In addition to drawing each shape object, print out the object's attributes, with the object's name. Example:

```
System.out.println("myRectangle: " + myRectangle);
```

Name: _____

Homework 1 Grade Sheet

Program Design	Point Value	Points Earned
<u>Uses the proper header</u> <pre>/** * Class - description of this class * @author Your name * @version Date */</pre>	10	
<u>Object method calls</u> <ul style="list-style-type: none"> Used more than 5 objects Used at least one from each of the three classes Used dot notations for method calls Specified parameter values in () 	10 10 15 15	
<u>Canvas Output Window Looks Correct</u> <ul style="list-style-type: none"> Canvas window 	20	
<u>Printing Objects</u> <ul style="list-style-type: none"> Included name and attributes for all objects in the output 	20	
Total Points	100	

Comments: