First GUI Application

Due Date:

This assignment is due Friday 2023-03-03 (students in Lab 3 may ask for an extension).

Purpose:

To become familiar with the javax.swing.* architecture for painting.

Reading Assignment:

Read Chapter 2.8, 2.9, etc.,

Recommended Coding Approach

Look at the lab6q4.zip file for a partial solution to one of the problems below. The approach used comes from earlier editions of Horstmann's text. Specifically it uses

- a Main class that runs everything. (can often be combined with the frame class)
- a HouseFrame class that subclasses JFrame to provide the outer frame in an applicationspecific way.
- a HouseComponent class that subclasses JComponent, and orchestrates the painting of houses.
- a House class that knows how to draw a House.

Thie approach is very general and flexible.

Problems

Code solutions to the following problems:

- Write a program to print your name in blue inside a black rectangle.
- Write a program to draw a face like



Write a program to draw two solid overlapping squares, one green, one yellow.

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- Write a program that draws a house, either as simple as ____, or as fancy as you wish.
- Repeat the previous exercise, but create a House class with a constructor that allows you to specify size and location, and then create a drawing with multiple houses.
- Write a program to draw the Olympic rings



Hand In Process

This section applies to this laboratory assignment and other laboratory assignments that are graphical in nature. To help the marker:

- Your program should be contained in a package cpsc101.name.lab5_a where *name* is your unbc userid, 5 is the number of the lab assignment that you are handing in, and a is the part of the lab.
- The public static void main(String [] arghS) method should be found in a class called Main.
- Your .zip-file should have a name that depends on both your own name and the assignment number, for instance, weeks-lab6.zip.