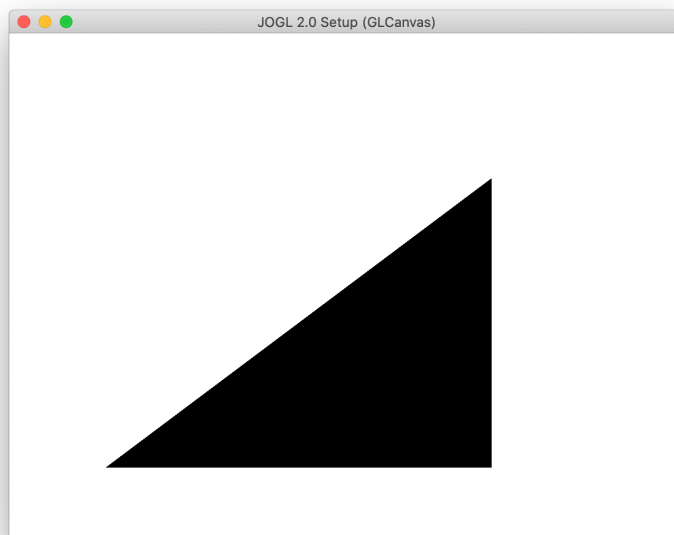**Lab Homework #0: The Triangle [Total points: 5]**

This lab must be completed individually. The purpose of this lab is to test whether the students have setup their machine to be able to compile/run JOGL graphics programs.

Before starting to work on the project, ensure to download the JOGL library files. The JOGL library download installation guide can be found at this link.

1. In this homework assignment, we are going to create a basic project in Java. Now, configure the project so that we can use JOGL library with this project. The instruction to setup the JOGL library with Eclipse IDE can be found at this link.
2. The public class of the project should have only the main function. The main function creates an object of the GLCanvas class and adds that to a JFrame Window.
3. The source code of the program has been attached with the assignment description that you can use with your project.

If you have setup JOGL correctly, you should be able to see a black triangle displayed in a window as the following:

If you do not see such an output, then go back to the Eclipse project configuration link and ensure that the downloaded JOGL jar files are in the CLASS_PATH of the project.

Review the code and change the color of the displayed triangle by changing the values of the glColor3f function in the program.

Second, customize the size of the windows to be 1024 (width) and 768 (height).

Change the title of the displayed windows as "Java JOGL Setup for [LASTNAME]", where LASTNAME is the last name of the student.

As deliverable, take a screenshot of the run of the program and attach it along with the modified source code as your submission.

The total points for this introductory assignment would be 5. The assignment rubrics for the work is given in the following:

Criterion	Details	Deductions
Program file	Must be named Lab0<last_name>.java	-1 Triangle color not changed -1 Title of the window not changed -1 Dimension of the window not changed -3 Program file (.java) not submitted
Image File	The image file should show the run of the program as shown in the figure	-2: No picture added demonstrating the sample run of the project
Test	Note, whether the program compile and run	-5: the code does not compile or run (due to incorrect addition or missing imports)

The deadline to submit the assignment would be 8pm, Thursday, September 2. Thanks.