The RoseGraphics 101 Project

In this project you will demonstrate your ability to:

- Master a new API.
- Manipulate arrays of structure instances.
- Use loops.

Here is what you must do:

- 1. *Install OpenGL* by following the *instructions to the right*.
- 2. Checkout the RoseGraphicsDemo project that I supplied.
 - a. Clean the project, then Build it, then Run it. Confirm that it compiles and runs. If not, call me immediately, as it is EASY for me to fix, HARD for you to fix, and LIKELY that it needs FIXING.
 - b. Read and understand the code, asking me questions as desired.
- 3. Checkout the **RoseGraphics101** project that I supplied.
 - a. Clean the project, then Build it, then Run it. Confirm that it compiles and runs. If not, fix as we did with RoseGraphicsTest. If that does not fix the problems, call me immediately.
 - b. Do the TODO's in that project. *Call me first* to be sure you understand what the TODO's are asking you to do.
 - c. Optional: Do anything else you want with the project.

The entire exercise, from start to finish, should not take you more than 8 hours (except for 3c, which might take you forever!).

To install OpenGL:

- 1. Find your MinGW folder. It probably is one of:
 - C:/MinGW
 - C:/Program Files/MinGW

In your MinGW folder, you will see folders:

- include
- include/GW
- lib
- 2. Download and unzip this version of GLUT.
- 3. In the unzipped folder GLUTMinGW, you will see the following:
 - include/GL copy all 7 files in this folder to the MinGW's include/GW folder.
 - include/mui copy this entire folder to the MinGW's include folder, so that now MinGW has an include/mui folder.
 - lib copy all 4 files in this folder to the MinGW's lib folder.
 - glut32.dll copy this file to the C:/Windows/System32 folder.

In each of the above copies, overwrite any existing files if asked.