Project 3-Shading

- What was implemented:
 - The triangular mesh appears to be drawn properly
 - o The normals appear to have been calculated correctly, as shown by the colors
 - Lighting/shading was started
- What you could not implement.
 - I couldn't figure out entirely how to get the lighting to work correctly. The light is there but it is neither at the correct angle /doesn't look right, and it certainly doesn't work as I'd expect with the blinn-phong equation.
- Additional functionalities beyond project requirements.
 - N/A I need to still finish the lighting.
- How to use your implementation.
 - o Right click and scroll to zoom in and out
 - Left click and scroll to rotate. Left and right rotates left and right, up and down rotates up and down
 - o P switches between orthogonal and normal transforms
 - F6 recompiles the shaders....I think(hard to test)
 - ESC exits the window
- What operating system and compiler you used
 - Operating system: Windows 11
 - Programmed in Visual studio: used VS internal compiler(gl????)
- External libraries and additional requirements to compile your project.
 - Same as previous projects:
 - Required libraries:
 - FreeGlut
 - Glew
 - CyCodeBase

In addition, FreeGlut.dll and Glew.dll were required to be put in System 32. Libraries were put in folders next to the project along with the associated headers. In addition, I used:

```
#include <string.h>
    #define _USE_MATH_DEFINES
    #include <math.h>

//I had to put this to make it work...for some reason
#pragma comment(lib, "glew32.lib")
```

Here are some screenshots of the implementation:

Figure 1: Triangular meshes drawn

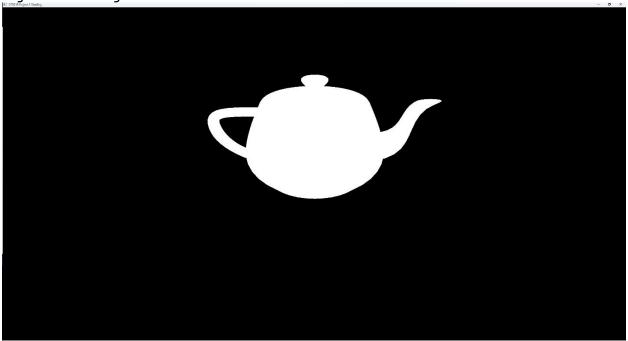


Figure 2: Normals shown

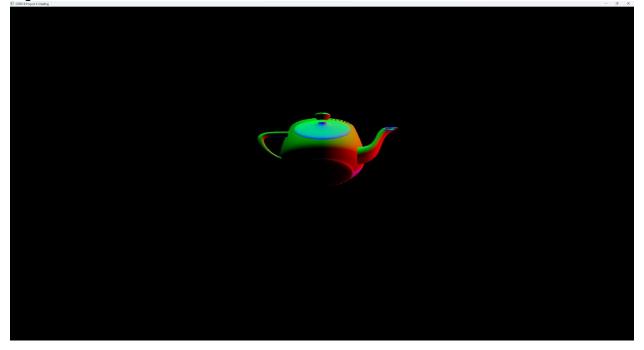




Figure 3: Lighting started(unfinished)