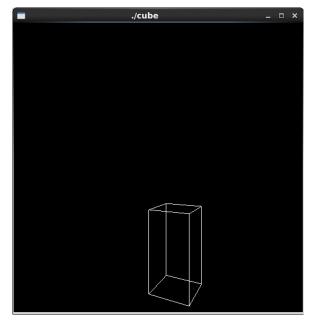
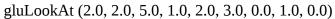
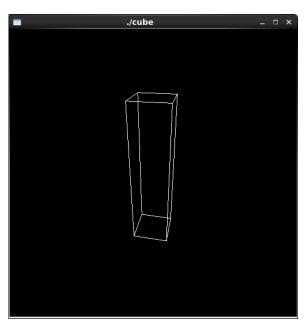
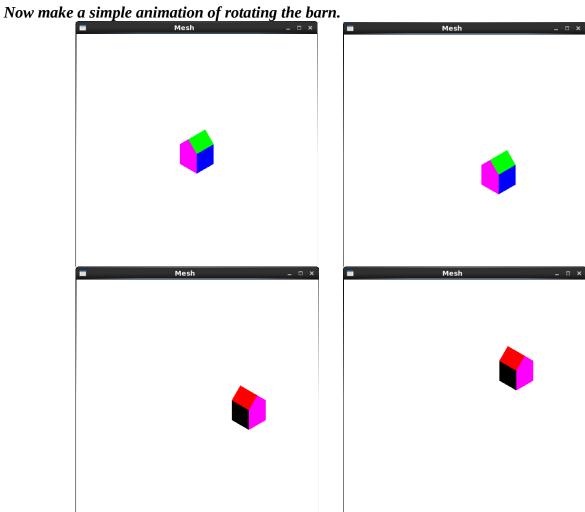
Try the program cube.cpp discussed in class. Change parameters of gluLookAt() and glScalf() to see their effects on rendering.







glScalef (1.0, 4.0, 1.0)



```
void display(void)
 glMatrixMode( GL_PROJECTION );
 glLoadIdentity();
 glOrtho(-5.0, 5.0, -5.0, 5.0, 0.1, 100);
 glMatrixMode(GL_MODELVIEW); // position and aim the camera
 glLoadIdentity();
 gluLookAt(8.0, 8.0, 8.0, 0.0, 0.0, 0.0, 0.0, 1.0, 0.0);
 glClear(GL COLOR BUFFER BIT);
 glClearColor (1.0, 1.0, 1.0, 1.0);
 Mesh msh:
 msh.readFile( DATA_FILE );
 msh.drawMesh();
 glFlush();
 SDL_Delay (1000);
 glPushMatrix();
                           //save current matrix M
 glTranslatef ( 2.0, 0, 0 );
                           //move in x-direction
 glClear(GL_COLOR_BUFFER_BIT);
 msh.drawMesh();
 glFlush();
 SDL_Delay (1000);
 glRotatef (90, 0, 1, 0);
                           //rotate about y-axis for 90
 glClear(GL_COLOR_BUFFER_BIT);
msh.drawMesh();
                           //rotate then translate
 glFlush();
 SDL_Delay ( 1000 );
 glPopMatrix();
                           //restore maxtrix M
 glRotatef (90, 0, 1, 0);
 glTranslatef ( 2.0, 0, 0 );
                          //translate then rotate
 glClear(GL_COLOR_BUFFER_BIT);
 msh.drawMesh();
glFlush();
```

Report:

The first part of the lab is pretty straight forward. The second part was a little bit tricky at first but after class I got it right. I finished this lab successfully.