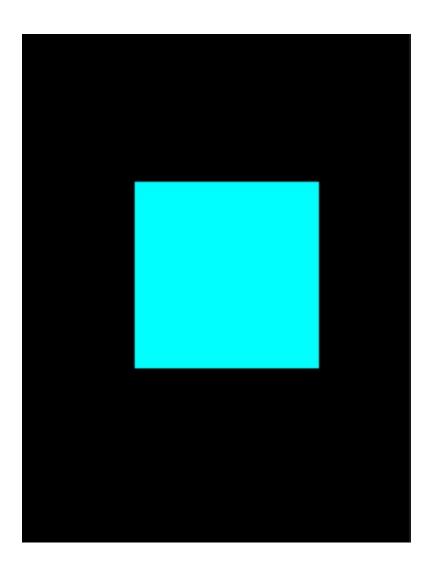
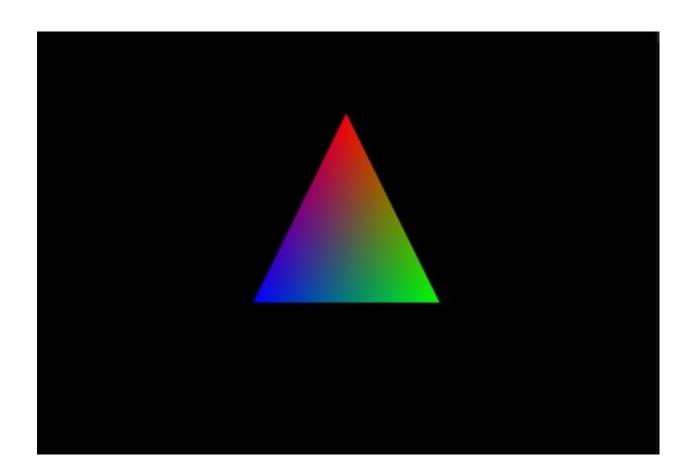
## Tutorial 04 IS 2107 Graphics and Visualization

```
1.
```

```
#include <windows.h>
#include <GL/glut.h>
#include <GL/gl.h>
void createCube(){
    glClearColor(0.0,0.0,0.0,1.0);
    glClear(GL_COLOR_BUFFER_BIT);
    glBegin(GL_POLYGON);
        glColor3f(0,1.0,1.0);
        glVertex3f(-0.4,-0.2,0);
        glVertex3f(-0.4,0.4,0);
        glVertex3f(0.2,0.4,0);
        glVertex3f(0.2,-0.2,0);
    glEnd();
    glFlush();
int main(int argc, char ** argv){
    glutInit(&argc,argv);
    glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB | GLUT_DEPTH);
    glutCreateWindow("Cube");
    glutInitWindowSize(1500,1500);
    glutInitWindowPosition(0,0);
    glutDisplayFunc(Cube);
    glutMainLoop();
    return 0;
}
```



```
2.
#include <windows.h>
#include <GL/glut.h>
#include <GL/gl.h>
void createPyramid(){
    glClearColor(0.0,0.0,0.0,1.0);
    glShadeModel(GL_SMOOTH);
    glClear(GL_COLOR_BUFFER_BIT);
    glBegin(GL_TRIANGLES);//front face
        glColor3f(0.0,0.0,1.0);
        glVertex2f(0,1);
        glColor3f(1.0,0.0,0.0);
        glVertex2f(-0.5,0);
        glColor3f(0.0,1.0,0.0);
        glVertex2f(0.5,0);
    glEnd();
    glFlush();
int main(int argc, char ** argv){
    glutInit(&argc,argv);
    glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB | GLUT_DEPTH);
    glutCreateWindow("Phyramid");
    glutInitWindowSize(1500,1500);
    glutInitWindowPosition(0,0);
    glutDisplayFunc(createPyramid);
    glutMainLoop();
    return 0;
```



```
#include <windows.h>
#include <GL/glut.h>
#include <GL/gl.h>
void createFinale(){
    glClearColor(0.0,0.0,0.0,1.0);
    glShadeModel(GL_SMOOTH);
    glClear(GL_COLOR_BUFFER_BIT);
    glBegin(GL_POLYGON);
        glColor3f(0,1.0,1.0);
        glVertex3f(-0.4,-0.2,0);
        glVertex3f(-0.4,0.4,0);
        glVertex3f(0.2,0.4,0);
        glVertex3f(0.2,-0.2,0);
    glEnd();
     glBegin(GL_TRIANGLES); //top face
        glColor3f(0.0,0.0,1.0);
        glVertex2f(-0.1,1);
        glColor3f(1.0,0.0,0.0);
        glVertex2f(-0.4,0.4);
        glColor3f(0.0,1.0,0.0);
        glVertex2f(0.2,0.4);
    glEnd();
    glBegin(GL_TRIANGLES); //left face
        glColor3f(0.0,0.0,1.0);
        glVertex2f(-1,0.1);
        glColor3f(1.0,0.0,0.0);
        glVertex2f(-0.4,0.4);
        glColor3f(0.0,1.0,0.0);
        glVertex2f(-0.4,-0.2);
    glEnd();
    glBegin(GL_TRIANGLES); //right face
        glColor3f(0.0,0.0,1.0);
        glVertex2f(0.8,0.1);
        glColor3f(1.0,0.0,0.0);
        glVertex2f(0.2,0.4);
        glColor3f(0.0,1.0,0.0);
        glVertex2f(0.2,-0.2);
    glEnd();
    glFlush();}
int main(int argc, char ** argv){
glutInit(&argc,argv);
    glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB | GLUT_DEPTH);
    glutCreateWindow("Finale");
    glutInitWindowSize(1500,1500);
    glutInitWindowPosition(0,0);
    glutDisplayFunc(createFinale);
    glutMainLoop();
    return 0;
```

