

LAB REPORT

Course Code: CSE422

Course Title: Computera Graphics Lab

Experiment No: 01 starc using Experiment Name: Drawing a traingle using two reverse traingles in

Open GL

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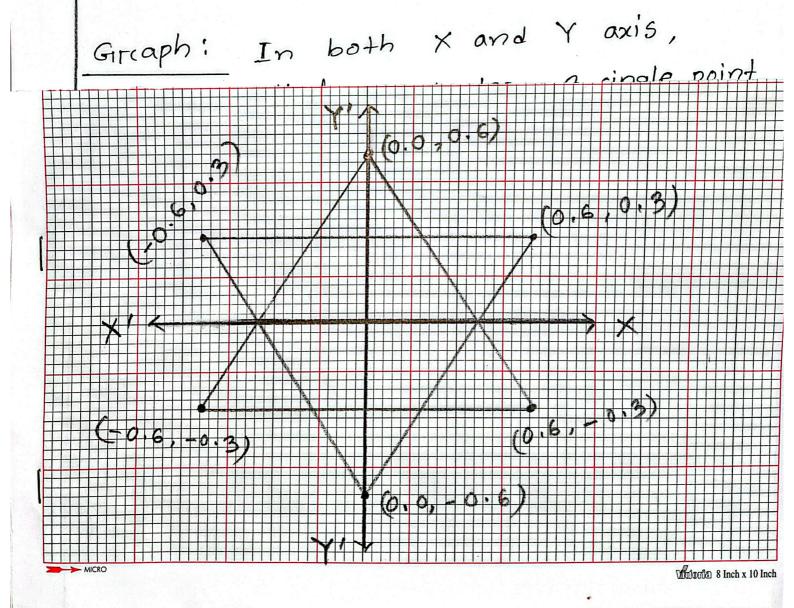
Title: Drawing a star using two neverse triangles in OpenGL.

Introduction: In this prioject, I have drawn a 2D star shape using openGL. The star is created by combining two reverse triangles one pointing upwared and other downward. The priogram uses GLUT for window creation and riendering. The triangles are drawn in wireframe mode, giving the shape a neat star-like outline.

contents: In this prooject, I used the following open Gil functions and concepts:

- · gl Begin (GL_TRIANGLES): Stants drowing triangles. Each set of three ventices form one triangle.
- · glvertex2f(x,y): Defines the (x,y) coordinates of each vertex.
- · gl Color4f(π, g, b, a): Sets the color with πed, green, blue, and alpha values.

- · glPolygonMode (GL_FRONT_AND_BACK, GLLINE)
 prows only the edges of the traingles
 instead of filling them.
- · Shape Used: One triangle foces upward, and the other downward. When combined, they forem a six-pointed starc shape.



Code:

yoid display() {
glelear(Gil_COLOR_BUFFER_BIT);
gleolor(Af(0.5f, 0.5f, 0.5f, 0.5f);
glpolygonMode(GI_FRONT_AND_BACK,
GL_LINE);
glbegin(Gil_TRIANGLES);
glver(tex2f(0.0f, 0.6f);
glver(tex2f(-0.6f, -0.3f);
glver(tex2f(0.0f, -0.3f);
glver(tex2f(0.0f, -0.6f);
glver(tex2f(0.0f, -0.6f);
glver(tex2f(0.0f, 0.3f);
glver(tex2f(0.6f, 0.3f);
glver(tex2f(0.6f, 0.3f);
glver(tex2f(0.6f, 0.3f);

2

gl Flush();

Discussion: In this task, I made a stare shape using two opposite triangles in OpenGIL. One triangle points up and the other down. I used glpolygonMode, to show only the outlines and glcolorafi to set a gray word. This project helped me learn how to use simple shapes to make a stare and draw it using OpenGL.