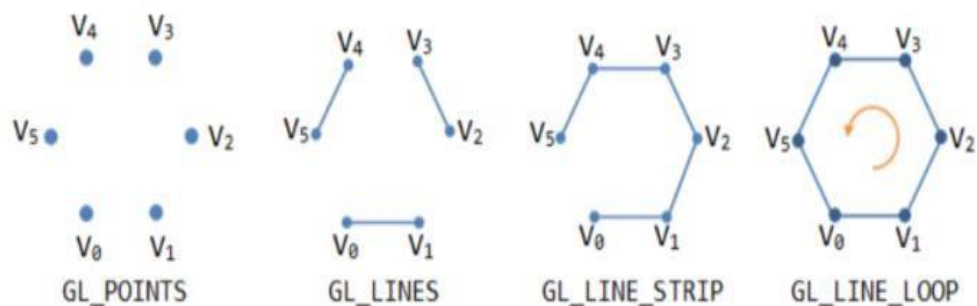


**U18C0018**  
**Shubham Shekhaliya**  
**Computer Graphics**  
**Assignment-4**

✓ Write a program to draw the following shapes:

1. Points (individual points)
2. Lines (pairs of vertices interpreted as individual line segments)
3. Line Strip (series of connected line segments)
4. Line Loop (same as above, with a segment added between last and first vertices)



Code:-

```
#include<windows.h>
#include<stdio.h>
#include<GL/glut.h>
#include<math.h>
void init() {
    glClearColor(1.0, 1.0, 1.0, 1.0);
    glColor3f(0.0, 0.0, 1.0);
    glPointSize(7.0);
    glMatrixMode(GL_PROJECTION);
    glLoadIdentity();
    gluOrtho2D(-780, 780, -420, 420);
}
void display() {
    glClear(GL_COLOR_BUFFER_BIT);
    glEnable(GL_POINT_SMOOTH);
    glBegin(GL_LINE_LOOP); // Change argument for different shapes
```

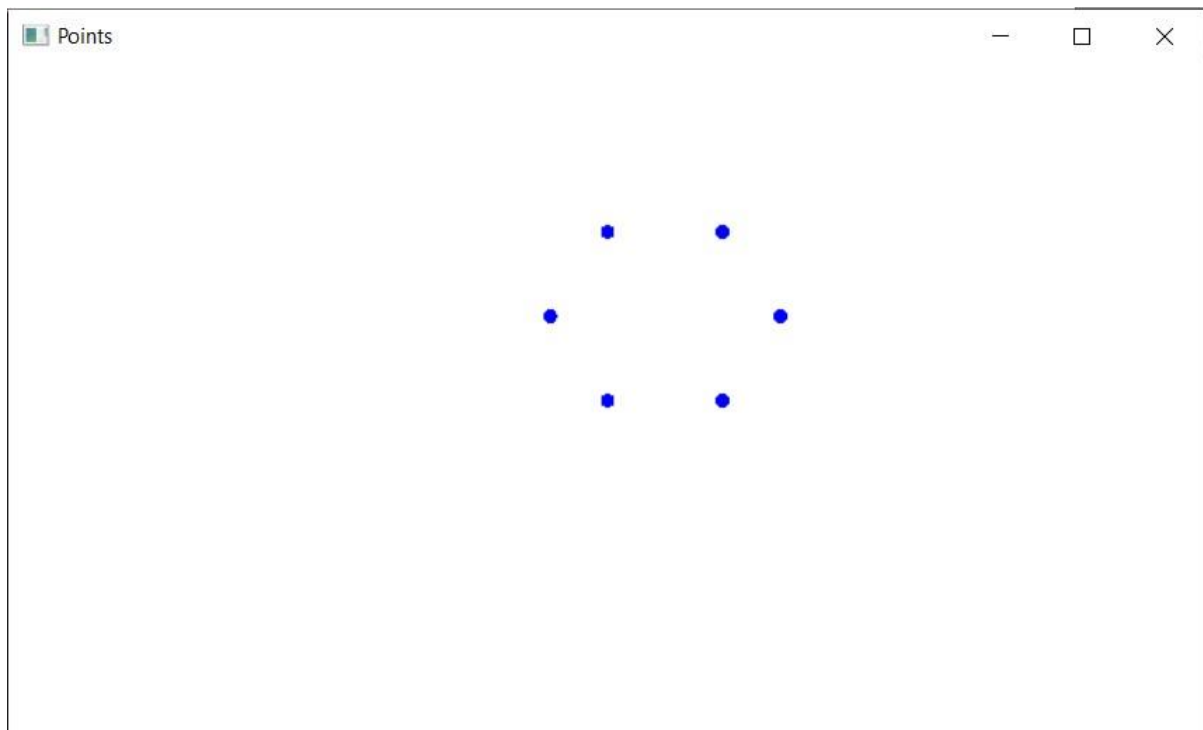
```

    glVertex2f(0, 0);
    glVertex2f(150, 0);
    glVertex2f(225, 105);
    glVertex2f(150, 210);
    glVertex2f(0, 210);
    glVertex2f(-75, 105);
    glEnd();
    glFlush();
}

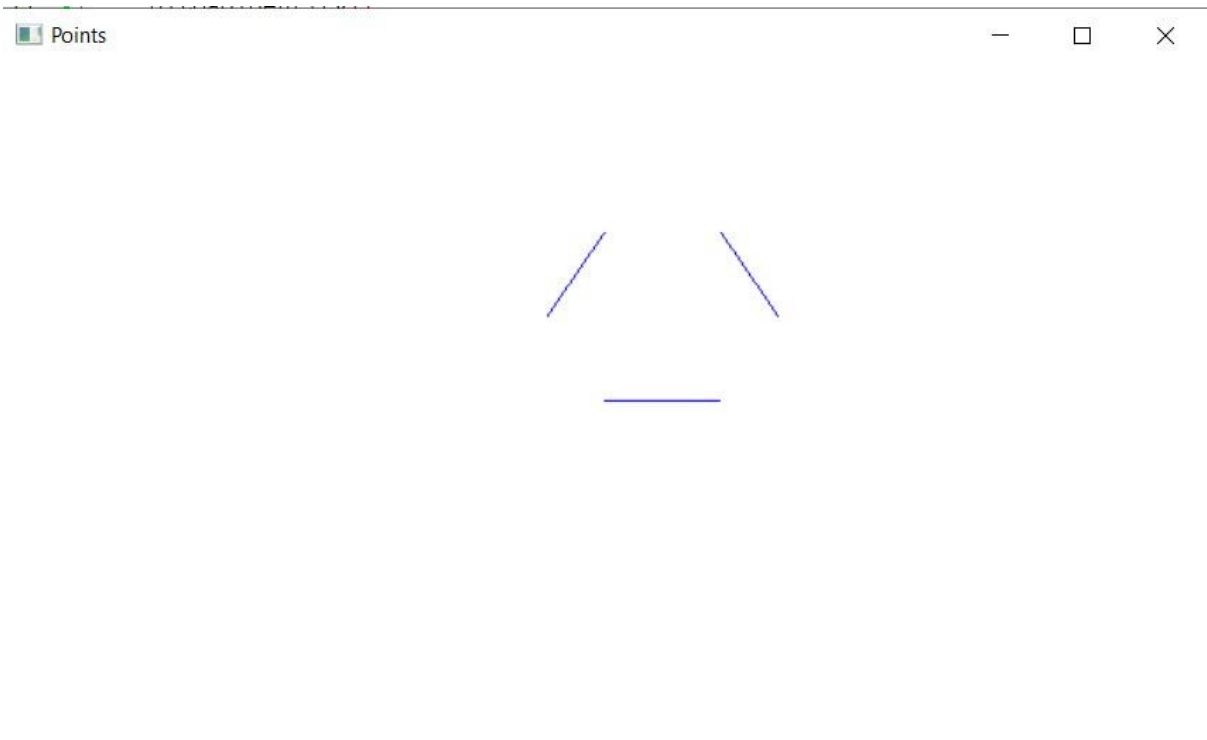
int main (int argc, char** argv) {
    glutInit(&argc, argv);
    glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
    glutInitWindowSize(683, 384);
    glutInitWindowPosition(0, 0);
    glutCreateWindow("Points");
    init();
    glutDisplayFunc(display);
    glutMainLoop();
    return 0;
}

```

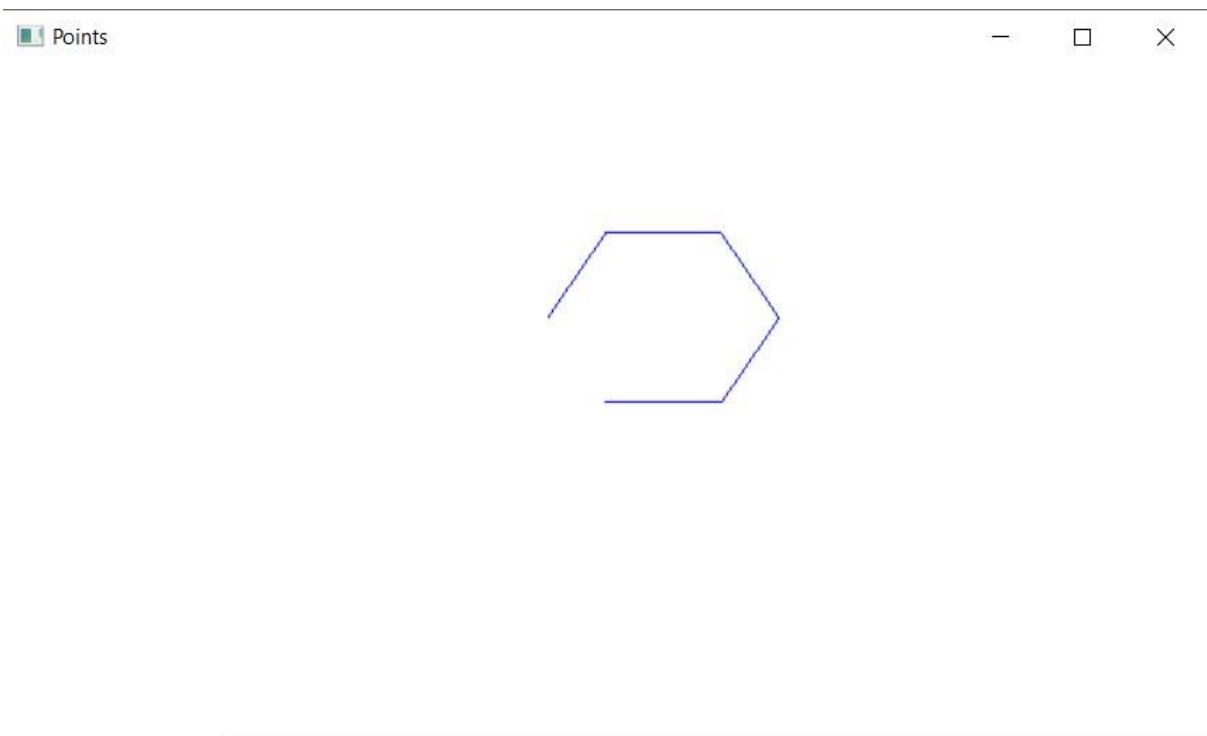
## ○ GL\_POINTS



## ○ GL\_LINES



## ○ GL\_LINE\_STRIP



## ○ GL\_LINE\_LOOP

