

JAVA EXAMPLES - DISPLAY POLYGON USING GUI

http://www.tutorialspoint.com/javaexamples/gui_polygon.htm

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Problem Description:

How to draw a polygon using GUI?

Solution:

Following example demonstrates how to draw a polygon by creating Polygon object. addPoint & drawPolygon method is used to draw the Polygon.

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class Main extends JPanel {
    public void paintComponent(Graphics g) {
        super.paintComponent(g);
        Polygon p = new Polygon();
        for (int i = 0; i < 5; i++)
            p.addPoint((int)
                (100 + 50 * Math.cos(i * 2 * Math.PI / 5)),
                (int) (100 + 50 * Math.sin(i * 2 * Math.PI / 5)));
        g.drawPolygon(p);
    }

    public static void main(String[] args) {
        JFrame frame = new JFrame();
        frame.setTitle("Polygon");
        frame.setSize(350, 250);
        frame.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) {
                System.exit(0);
            }
        });
        Container contentPane = frame.getContentPane();
        contentPane.add(new Main());
        frame.setVisible(true);
    }
}
```

Result:

The above code sample will produce the following result.

Polygon is displayed in a frame
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