

PROGRAM:

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

class TrafficLights implements ActionListener
{
    JFrame jf;
    JRadioButtonMenuItem r1, r2, r3;
    JLabel l1;

    TrafficLights()
    {
        jf = new JFrame();
        jf.setSize(350, 200);
        jf.setTitle("Traffic Lights");

        FlowLayout FL = new FlowLayout(FlowLayout.CENTER, 20, 20);
        jf.setLayout(FL);

        l1 = new JLabel("", SwingConstants.CENTER);

        r1 = new JRadioButtonMenuItem("Red");
        r2 = new JRadioButtonMenuItem("Yellow");
        r3 = new JRadioButtonMenuItem("Green");

        ButtonGroup bg = new ButtonGroup();
        bg.add(r1);
        bg.add(r2);
        bg.add(r3);

        r1.addActionListener(this);
        r2.addActionListener(this);
        r3.addActionListener(this);

        jf.add(l1);
        jf.add(r1);
        jf.add(r2);
        jf.add(r3);

        jf.setVisible(true);

        jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

    public void actionPerformed(ActionEvent ae)
    {
        Color c1 = Color.BLACK;
        String str = "";

        if (r1.isSelected())
        {
            str = "Stop";
            c1 = Color.RED;
        }
        else if (r2.isSelected())
        {

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        str = "Ready";
        c1 = Color.YELLOW;
    }
    else if (r3.isSelected())
    {
        str = "Go";
        c1 = Color.GREEN;
    }

    l1.setText(str);
    l1.setForeground(c1);
}

public static void main(String[] args)
{
    new TrafficLights();
}
}

```

OUTPUT:

