//Fabena Franklin

import java.awt.\*;

import java.awt.event.\*;

import javax.swing.\*;

class TrafficLight extends JFrame implements ActionListener

{

String msg=” ”;

private JTextField display;

private JRadioButton r1,r2,r3;

private ButtonGroup bg;

private Container c;

public TrafficLight()

{

setLayout(new FlowLayout());

setTitle(“TRAFFIC LIGHT”);

c=getContentPane();

display=newJTextField(10);

r1=newJRadioButton(“RED”);

r2=newJRadioButton(“GREEN ”);

r3=newJRadioButton(“YELLOW”);

bg=newButtonGroup();

c.add(frame);

c.add(r1);

c.add(r2);

c.add(r3);

c.add(display);

bg.add(r1);

bg.add(r2);

bg.add(r3);

r1.addActionListener(this);

r2.addActionListener(this);

r3.addActionListener(this);

setSize(400,400);

setVisible(true);

c.setBackground(Color.PINK)

}

public void actionPerformed(ActionEvent ie)

{

msg=ie.getActionCommand();

if(msg.equals(“RED”))

{

c.setBackground(Color.RED);

display.setText(”TURN ON: ”+msg);

}

else if(msg.equals(“GREEN”))

{

c.setBackground(Color.GREEN);

display.setText(“TURN ON ”+msg);

}

else

{

c.setBackground(color.YELLOW);

display.setText(“TURN ON :”+msg)

}

}

public static void main(String[]args)

{

TrafficLight light=new TrafficLight();

Light.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE)

}

}