PROGRAM

import java . awt .\*;

import java . awt . event .\*;

import javax . swing .\*;

public class traffic {

traffic (){

JFrame T = new JFrame ( "Traffic light" );

JPanel p1 = new JPanel ();

JPanel p2 = new JPanel ();

JPanel p3 = new JPanel ();

JPanel p4 = new JPanel ();

JPanel p5 = new JPanel ();

JPanel p6 = new JPanel ();

JPanel p7 = new JPanel ();

final JRadioButton b []= new JRadioButton [ 3 ];

ButtonGroup bg = new ButtonGroup ();

b [ 0 ]= new JRadioButton ( "Start" );

b [ 0 ]. setBackground ( Color . WHITE );

b [ 1 ]= new JRadioButton ( "WAIT" );

b [ 1 ]. setBackground ( Color . WHITE );

b [ 2 ]= new JRadioButton ( "STOP" );

b [ 2 ]. setBackground ( Color . WHITE );

bg . add ( b [ 0 ]);

bg . add ( b [ 1 ]);

bg . add ( b [ 2 ]);

p1 . setBackground ( Color . BLACK );

p2 . setBackground ( Color . BLACK );

p3 . setBackground ( Color . BLACK );

p4 . setBackground ( Color . BLACK );

p5 . setBackground ( Color . BLACK );

p6 . setBackground ( Color . BLACK );

p7 . setBackground ( Color . BLACK );

p2 . add ( p4 );

p2 . add ( b [ 0 ]);

p2 . add ( p5 );

p2 . add ( b [ 1 ]);

p2 . add ( p6 );

p2 . add ( b [ 2 ]);

p2 . add ( p7 );

p2 . setLayout ( new GridLayout ( 1 , 7 ));

T . add ( p1 );

T . add ( p2 );

T . add ( p3 );

T . setSize ( 450 , 300 );

T . setLayout ( new GridLayout ( 3 , 1 ));

T . setVisible ( true );

T . setDefaultCloseOperation ( JFrame . EXIT\_ON\_CLOSE );

b [ 0 ]. addActionListener ( new ActionListener (){

public void actionPerformed ( ActionEvent e ){

b [ 0 ]. setBackground ( Color . GREEN );

b [ 1 ]. setBackground ( Color . WHITE );

b [ 2 ]. setBackground ( Color . WHITE );

}

});

b [ 1 ]. addActionListener ( new ActionListener (){

public void actionPerformed ( ActionEvent e ){

b [ 0 ]. setBackground ( Color . WHITE );

b [ 1 ]. setBackground ( Color . YELLOW );

b [ 2 ]. setBackground ( Color . WHITE );

}

});

b [ 2 ]. addActionListener ( new ActionListener (){

public void actionPerformed ( ActionEvent e ){

b [ 0 ]. setBackground ( Color . WHITE );

b [ 1 ]. setBackground ( Color . WHITE );

b [ 2 ]. setBackground ( Color . RED );

}

});

}

public static void main ( String [] args ){

new traffic ();

}

}