**Question 1**

package q2;

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

import javax.swing.event.\*;

public class Q2 extends JApplet implements ActionListener{

JRadioButton rb1, rb2, rb3;

Container c;

public void init()

{

c = getContentPane();

c.setLayout(new FlowLayout());

rb1 = new JRadioButton("Blue");

rb2 = new JRadioButton("Yellow");

rb3 = new JRadioButton("Red");

ButtonGroup gb = new ButtonGroup();

gb.add(rb1);

gb.add(rb2);

gb.add(rb3);

rb1.addActionListener(this);

rb2.addActionListener(this);

rb3.addActionListener(this);

c.add(rb1);

c.add(rb2);

c.add(rb3);

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==rb1)

{

rb1.setVisible(false);

rb2.setVisible(false);

rb3.setVisible(false);

c.setBackground(Color.blue);

}

if(e.getSource()==rb2)

{

rb1.setVisible(false);

rb2.setVisible(false);

rb3.setVisible(false);

c.setBackground(Color.yellow);

}

if(e.getSource()==rb3)

{

rb1.setVisible(false);

rb2.setVisible(false);

rb3.setVisible(false);

c.setBackground(Color.red);

}

}

}

**Question 2**

package q5;

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

import javax.swing.event.\*;

class TabOne extends JPanel

{

public TabOne()

{

JLabel lab1 = new JLabel("panel one");

add(lab1);

}

}

class TabTwo extends JPanel

{

public TabTwo()

{

JLabel lab2 = new JLabel("panel two");

add(lab2);

setBackground(Color.yellow);

}

}

class TabThree extends JPanel

{

JButton north, west, east, south;

public TabThree()

{

north = new JButton("north");

west = new JButton("West");

east = new JButton("East");

south = new JButton("South");

setLayout(new BorderLayout());

JLabel lab3 = new JLabel("panel three");

add(lab3, BorderLayout.CENTER);

add(north,BorderLayout.NORTH);

add(south,BorderLayout.SOUTH);

add(east,BorderLayout.EAST);

add(west,BorderLayout.WEST);

}

}

public class Q5 extends JApplet{

public void init()

{

JTabbedPane jtp = new JTabbedPane();

jtp.addTab("Tab One", new TabOne());

jtp.addTab("Tab Two", new TabTwo());

jtp.addTab("Tab Three", new TabThree());

getContentPane().add(jtp);

}

}

**Question 3**

package q6;

import java.awt.\*;

import java.util.\*;

import javax.swing.\*;

import java.awt.event.\*;

import javax.swing.event.\*;

class HorizontalBox extends JPanel

{

JButton jb0, jb1, jb2;

public HorizontalBox()

{

setLayout(null);

jb0 = new JButton("Button 0");

jb0.setBounds(0, 50, 100, 30);

jb1 = new JButton("Button 1");

jb1.setBounds(100, 50, 100, 30);

jb2 = new JButton("Button 2");

jb2.setBounds(200, 50, 100, 30);

add(jb0);

add(jb1);

add(jb2);

}

}

class VerticalBox extends JPanel

{

JButton jb0, jb1, jb2;

public VerticalBox()

{

setLayout(null);

jb0 = new JButton("Button 0");

jb0.setBounds(0, 20, 100, 30);

jb1 = new JButton("Button 1");

jb1.setBounds(0, 80, 100, 30);

jb2 = new JButton("Button 2");

jb2.setBounds(0, 140, 100, 30);

add(jb0);

add(jb1);

add(jb2);

}

}

class HorizontalBoxGlue extends JPanel

{

JButton jb0, jb1, jb2;

public HorizontalBoxGlue()

{

setLayout(null);

jb0 = new JButton("Button 0");

jb0.setBounds(50, 80, 100, 30);

jb1 = new JButton("Button 1");

jb1.setBounds(180, 80, 100, 30);

jb2 = new JButton("Button 2");

jb2.setBounds(310, 80, 100, 30);

add(jb0);

add(jb1);

add(jb2);

}

}

class VerticalBoxRigidAreas extends JPanel

{

JButton jb0, jb1, jb2;

public VerticalBoxRigidAreas()

{

setLayout(null);

jb0 = new JButton("Button 0");

jb0.setBounds(20, 10, 100, 30);

jb1 = new JButton("Button 1");

jb1.setBounds(20, 50, 100, 30);

jb2 = new JButton("Button 2");

jb2.setBounds(20, 90, 100, 30);

add(jb0);

add(jb1);

add(jb2);

}

}

class VerticalBoxGlue extends JPanel

{

JButton jb0, jb1, jb2;

public VerticalBoxGlue()

{

setLayout(null);

jb0 = new JButton("Button 0");

jb0.setBounds(0, 20, 100, 30);

jb1 = new JButton("Button 1");

jb1.setBounds(0, 70, 100, 30);

jb2 = new JButton("Button 2");

jb2.setBounds(0, 120, 100, 30);

add(jb0);

add(jb1);

add(jb2);

}

}

public class Q6 extends JApplet{

public void init()

{

JTabbedPane jtp = new JTabbedPane();

jtp.addTab("Horizontal Box", new HorizontalBox());

jtp.addTab("Vertical Box with Struts", new VerticalBox());

jtp.addTab("Horizontal Box with Glue", new HorizontalBoxGlue());

jtp.addTab("Vertical Box with Rigid Areas", new VerticalBoxRigidAreas());

jtp.addTab("Vertical Box with Glue", new VerticalBoxGlue());

getContentPane().add(jtp);

}

}