

1.

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Create an application for Paula's Portraits, a photography studio. The application allows users to compute the price of a photography session. Paula's base price is \$40 for an in-studio photo session with one person. The in-studio fee is \$75 for a session with two or more subjects, and \$95 for a session with a pet. A \$90 fee is added to take photos on location instead of in the studio. Include a set of mutually exclusive check boxes to select the portrait subject and another set for the session location. Include labels as appropriate to explain the application's functionality. Save the file as JPhotoFrame.java.

```
import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

class MyWindowAdapter extends WindowAdapter{

    public void windowClosing(WindowEvent we) {

        System.exit(0);

    }

}

class DataType{

    int single=40;

    int dual=75;

    int pet=95;

    int onl=90;

    int sum=0;

    JCheckBox ib,ob,sb,tb,pb;

    JTextField total;

}

class CheckMeListener extends DataType implements ItemListener{

    public void itemStateChanged(ItemEvent e){

        Object source=e.getSource();

        int select=e.getStateChange();

        if(source==ib)

        {
```

```
if(select==ItemEvent.SELECTED){  
    sum+=single;  
}  
else{  
    sum-=single;  
}  
}  
else if(source==ob)  
{
```

```
if(select==ItemEvent.SELECTED){  
    sum+=onl;  
}  
else{  
    sum-=onl;  
}  
}  
else if(source==sb)  
{  
    if(select==ItemEvent.SELECTED){  
        sum+=single;  
    }  
    else{  
        sum-=single;  
    }  
}  
else if(source==tb)  
{  
    if(select==ItemEvent.SELECTED){  
        sum+=dual;  
    }  
}
```

```

        else{
            sum-=dual;
        }
    }

    else if(source==pb)
    {
        if(select==ItemEvent.SELECTED){
            sum+=pet;
        }
        else{
            sum-=pet;
        }
    }

    total.setText("$"+sum);
    }
}

public class JPhotoFrame{
    public static void main(String[] args) {
        CheckMeListener y=new CheckMeListener();
        JFrame f = new JFrame("Photo price calculator");
        f.setSize(400,150);
        Panel p = new Panel();
        p.setLayout(new FlowLayout());
        y.ib=new JCheckBox("In studio");
        y.ob=new JCheckBox("out studio");
        y.sb=new JCheckBox("One Person");
        y.tb=new JCheckBox("Two Subjects");
        y.pb=new JCheckBox("Pet");
        y.total=new JTextField("TOTAL",15);
        ButtonGroup lg=new ButtonGroup();
    }
}

```

```

lg.add(y.ib);
lg.add(y.ob);
p.add(new JLabel("Select one location"));
p.add(y.ib);
p.add(y.ob);
ButtonGroup m=new ButtonGroup();
    m.add(y.sb);
    m.add(y.tb);
    m.add(y.pb);
p.add(new JLabel("Select one Subject"));
p.add(y.sb);
p.add(y.tb);
p.add(y.pb);
y.ib.addItemListener(y);
y.ob.addItemListener(y);
y.sb.addItemListener(y);
y.tb.addItemListener(y);
y.pb.addItemListener(y);
p.add(y.total);
f.add(p);
f.addWindowListener(new MyWindowAdapter());
f.setVisible(true);
    }
}

```



2.

Write an application for Lambert's Vacation Rentals. Use separate ButtonGroups to allow a client to select one of three locations, the number of bedrooms, and whether meals are included in the rental. Assume that the locations are parkside for \$600 per week, poolside for \$750 per week, or lakeside for \$825 per week. Assume that the rentals have one, two, or three bedrooms and that each bedroom greater than one adds \$75 to the base price. Assume that if meals are added, the price is \$200 more per rental. Save the file as JVacationRental.java.

```
import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

class MyWindowAdapter extends WindowAdapter{

    public void windowClosing(WindowEvent we) {

        System.exit(0);

    }

}

class Listeners {

    static int pars= 600;

    static int pos = 750;

    static int ls = 825;

    static int b1= 75;

    static int b2 = 150;

    static int b3 = 225;

    static int m = 200;

    static int lr = 0;

    static int br = 0;

    static int mc = 0;

    static JRadioButton park,pool,lake,one,two,three,yes,no;

    static JButton Cal;

    static JTextField total;

    static class ClickMeListener implements ActionListener{
```

```

public void actionPerformed(ActionEvent e)

{
    Object source = e.getSource();
    if(source == Cal){
        double totalRent = lr + br + mc;
        total.setText("Total amount $ " + totalRent);
    }
}

static class blistener implements ItemListener{
    public void itemStateChanged(ItemEvent e){
        Object source = e.getItem();
        if(source == one){
            br = b1;
        }
        else if(source == two){
            br = b2;
        }
        else if(source == lake){
            br=b3;
        }
        else{
            br=0;
        }
    }
}

static class llistener implements ItemListener{
    public void itemStateChanged(ItemEvent e)
    {
        Object source = e.getItem();

```

```

if(source == park){
    lr = pars;
}
else if(source == pool){
    lr = pos;
}
else if(source == lake){
    lr = ls;
}
else{
    lr=0;
}
}
}

static class mlistener implements ItemListener{
    public void itemStateChanged(ItemEvent e)
    {
        Object source = e.getItem();
        if(source == yes){
            mc = m;
        }
        else if(source == no){
            mc = 0;
        }
        else{
            mc= 0;
        }
    }
}

public class JVacationRental{

```

```
public static void main(String[] args) {  
    Listeners y = new Listeners();  
    Frame f = new JFrame("Rental price calculator");  
    f.setSize(350,160);  
    Panel p = new Panel();  
    p.setLayout(new FlowLayout());  
    y.park= new JRadioButton("park side");  
    y.pool= new JRadioButton("pool side");  
    y.lake= new JRadioButton("lake side");  
    y.one= new JRadioButton("one room");  
    y.two= new JRadioButton("two room");  
    y.three= new JRadioButton("three room");  
    y.yes= new JRadioButton("Yes");  
    y.no= new JRadioButton("No");  
    y.Cal= new JButton("Total");  
    y.total=new JTextField(15);  
    ButtonGroup l=new ButtonGroup();  
    l.add(y.park);  
    l.add(y.pool);  
    l.add(y.lake);  
    ButtonGroup b=new ButtonGroup();  
    b.add(y.one);  
    b.add(y.two);  
    b.add(y.three);  
    ButtonGroup yn=new ButtonGroup();  
    yn.add(y.yes);  
    yn.add(y.no);  
    p.add(new JLabel("Location"));  
    p.add(y.park);  
    p.add(y.pool);  
    p.add(y.lake);
```



```

p.add(new JLabel("Rooms"));

p.add(y.one);

p.add(y.two);

p.add(y.three);

p.add(new JLabel("Meals"));

p.add(y.yes);

p.add(y.no);

p.add(y.Cal);

p.add(y.total);

y.park.addItemListener(new Listeners.Ilistener());

y.pool.addItemListener(new Listeners.Ilistener());

y.lake.addItemListener(new Listeners.Ilistener());

y.one.addItemListener(new Listeners.blistener());

y.two.addItemListener(new Listeners.blistener());

y.three.addItemListener(new Listeners.blistener());

y.yes.addItemListener(new Listeners.mlistener());

y.no.addItemListener(new Listeners.mlistener());

y.Cal.addActionListener(new Listeners.ClickMeListener());

f.add(p);

f.addWindowListener(new MyWindowAdapter());

f.setVisible(true);
}
}

```

Rental price calculator

Location ☒ park side ☐ pool side ☐ lake side

Rooms ☐ one room ☐ two room ☐ three room

Meals ☐ Yes ☐ No