Exercise (Jun. 9, 2009)

```java
5  import java.awt.*;
6  import java.awt.event.*;
7  import javax.swing.*;
8
9  public class GridChangeColor implements ItemListener{
10     JFrame mainFrame = new JFrame("變色龍");
11     JPanel mainPanel = new JPanel();
12     String[] colorName = {"紅", "橙", "黃", "綠"};
13     JRadioButton[] colorButton = new JRadioButton[4];
14     public static void main(String[] argv){
15         GridChangeColor gb = new GridChangeColor();
16         gb.init();
17     }
18     public void init(){
19         Container contentPane = mainFrame.getContentPane();
20         contentPane.add(mainPanel, "Center");
21         JPanel up = new JPanel();
22         contentPane.add(up, "North");
23         up.setLayout(new GridLayout(2,2));
24         ButtonGroup g = new ButtonGroup();
25         for(int i=0;i<colorName.length;i++){
26             colorButton[i] = new JRadioButton(colorName[i]);
27             up.add(colorButton[i]);
28             g.add(colorButton[i]);
29             colorButton[i].addItemListener(this);
30         }
31         mainFrame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
32         mainFrame.setSize(320, 240);
33         mainFrame.setVisible(true);
34     }
```

```java
35     public void itemStateChanged(ItemEvent e){
36         if(e.getStateChange() ==  ItemEvent.SELECTED){
37             JRadioButton s = (JRadioButton) e.getSource();
38             if(s == colorButton[0]){
39                 mainPanel.setBackground(Color.RED);
40             }else if(s == colorButton[1]){
41                 mainPanel.setBackground(Color.ORANGE);
42             }else if(s == colorButton[2]){
43                 mainPanel.setBackground(Color.YELLOW);
44             }else{
45                 mainPanel.setBackground(Color.GREEN);
46             }
47         }
48     }
49 }
```

彷造例子改成右側面版

顏色顯示區

紅色	白色
黃色	綠色