```
package com. Uvisitor;
import java.awt.event.*;
import java.util.*;
import javax.swing.*;
public class VisitorProducer
  public static void main(String[] args)
    new MaterialWin();
}
//窗体类
class MaterialWin extends JFrame implements ItemListener
  private static final long serialVersionUID=1L;
  JPanel CenterJP;
  SetMaterial os; //材料集对象
  Company visitor1, visitor2; //访问者对象
  String[] select;
  MaterialWin()
    super("利用访问者模式设计艺术公司和造币公司");
    JRadioButton Art:
    JRadioButton mint;
    os=new SetMaterial();
    os.add(new Cuprum());
    os.add(new Paper());
    visitor1=new ArtCompany();//艺术公司
    visitor2=new Mint(); //造币公司
    this.setBounds(10,10,750,350);
    this.setResizable(false);
    CenterJP=new JPanel();
    this.add("Center", CenterJP);
    JPanel SouthJP=new JPanel();
    JLabel yl=new JLabel("原材料有:铜和纸,请选择生产公司:");
    Art=new JRadioButton("艺术公司",true);
    mint=new JRadioButton("造币公司");
    Art.addItemListener(this);
    mint.addItemListener(this);
    ButtonGroup group=new ButtonGroup();
    group.add(Art);
    group.add(mint);
    SouthJP.add(yl);
    SouthJP.add(Art);
    SouthJP.add(mint);
    this.add("South",SouthJP);
```

```
select=(os.accept(visitor1)).split(" "); //获取产品名
    showPicture(select[0],select[1]); //显示产品
  }
  //显示图片
  void showPicture(String Cuprum,String paper)
    CenterJP.removeAll(); //清除面板内容
    CenterJP.repaint(); //刷新屏幕
    String
FileName1="D:\\workspace\\DesignPattern\\src\\com\\Uvisitor\\"+Cuprum+".jpg";
FileName2="D:\\workspace\\DesignPattern\\src\\com\\Uvisitor\\"+paper+".jpg";
    JLabel lb=new JLabel(new Imagelcon(FileName1), JLabel.CENTER);
    JLabel rb=new JLabel(new Imagelcon(FileName2), JLabel.CENTER);
    CenterJP.add(lb);
    CenterJP.add(rb);
    this.setVisible(true);
    this.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
  }
  @Override
  public void itemStateChanged(ItemEvent arg0)
    JRadioButton jc=(JRadioButton) arg0.getSource();
    if (ic.isSelected())
       if (jc.getText()=="造币公司")
         select=(os.accept(visitor2)).split(" ");
       }
       else
         select=(os.accept(visitor1)).split(" ");
       }
       showPicture(select[0],select[1]); //显示选择的产品
    }
  }
//抽象访问者:公司
interface Company
{
  String create(Paper element);
  String create(Cuprum element);
}
//具体访问者:艺术公司
class ArtCompany implements Company
{
  public String create(Paper element)
```

```
{
    return "讲学图";
  public String create(Cuprum element)
    return "朱熹铜像";
}
//具体访问者: 造币公司
class Mint implements Company
  public String create(Paper element)
    return "纸币";
  public String create(Cuprum element)
    return "铜币";
//抽象元素: 材料
interface Material
  String accept(Company visitor);
//具体元素:纸
class Paper implements Material
  public String accept(Company visitor)
    return(visitor.create(this));
}
//具体元素:铜
class Cuprum implements Material
  public String accept(Company visitor)
    return(visitor.create(this));
//对象结构角色:材料集
class SetMaterial
  private List<Material> list=new ArrayList<Material>();
  public String accept(Company visitor)
```

```
Iterator < Material > i = list.iterator();
String tmp="";
while(i.hasNext())
{
    tmp+=((Material) i.next()).accept(visitor)+" ";
}
return tmp; //返回某公司的作品集
}
public void add(Material element)
{
    list.add(element);
}
public void remove(Material element)
{
    list.remove(element);
}
```