```
 1  package rolodex;
 2
 3  import javax.swing.*;
 4  import java.awt.*;
 5  import java.awt.event.*;
 6  import mvp.*;
 7
 8  /****
 9   *
10   * Class EditMenu is the companion view to the Edit model class.  The EditMenu
11   * window is a Java JMenu.  Anonymous instances of JMenuItem are defined for
12   * each item in the menu.
13   *                                                                          <p>
14   * See the comments in <a href="RolodexMenu.html"> ./RolodexMenu.java </a> for
15   * further discussion of why menus are first-class views.
16   *
17   */
18
19  public class EditMenu extends View {
20
21      /**
22       * Construct this with the given name as the pulldown label.  The given
23       * Edit is the companion model.
24       */
25      public EditMenu(String name, EditStub e) {
26          super(null, e);
27          this.e = e;
28
29          /*
30           * Make the widget of this a pulldown menu.
31           */
32          jm = new JMenu(name);
33      }
34
35      /**
36       * Compose this by inserting each of its four menu items -- Undo, Cut,
37       * Copy, and Paste.
38       */
39      public void compose() {
40
41          jm.add(new JMenuItem("Undo")).addActionListener(
42              new ActionListener() {
43                  public void actionPerformed(ActionEvent ev) {
44                      e.undo();
45                  }
46              }
47          );
48
49          jm.add(new JMenuItem("Cut")).addActionListener(
50              new ActionListener() {
51                  public void actionPerformed(ActionEvent ev) {
52                      e.cut();
53                  }
54              }
55          );
56
57          jm.add(new JMenuItem("Copy")).addActionListener(
58              new ActionListener() {
59                  public void actionPerformed(ActionEvent ev) {
60                      e.copy();
61                  }
62              }
63          );
64
65          jm.add(new JMenuItem("Paste")).addActionListener(
66              new ActionListener() {
67                  public void actionPerformed(ActionEvent ev) {
68                      e.paste();
69                  }
70              }
71          );
72
73
74      }
75
76      public JMenu getMenu() {
77          return jm;
78      }
79
80
81      /** Companion model downcast version of this.m */
82      protected EditStub e;
83
84      /** For convenience, downcast version of this.w */
85      protected JMenu jm;
86
87  }
```