```java
1 package project4;
2
3 import java.awt.GridLayout;
4 import java.awt.event.ActionEvent;
5 import java.awt.event.ActionListener;
6 import java.text.ParseException;
7 import java.text.SimpleDateFormat;
8 import java.util.Date;
9 import java.util.GregorianCalendar;
10
11 import javax.swing.JButton;
12 import javax.swing.JDialog;
13 import javax.swing.JLabel;
14 import javax.swing.JPanel;
15 import javax.swing.JTextField;
16
17 /*********************************************************************
18  * dialog box for renting dvd or blue ray, user must close box before
19  * accessing the gui again
20  * @author Gregory
21  * @version 7/26/2017
22  *********************************************************************/
23 public class RentDVDDialog extends JDialog implements ActionListener{
24
25     /** panel containing elements on display */
26     JPanel dialogPanel;
27
28     /** fields for user to enter information */
29     JTextField name, title, rentDate, dueDate;
30
31     /** buttons to rent the dvd/blue ray or cancel the dialog */
32     JButton rent, cancel;
33
34     /** DVD that is returned if dvd is called */
35     DVD rental;
36
37     /** Blueray that is returned if bluray is called */
38     BlueRay rental2;
39
40     /****************************************************************
41      * default constructor for dialog
42      ****************************************************************/
43     public RentDVDDialog(){
44         setModal(true);
45         dialogPanel = new JPanel();
46         dialogPanel.setLayout(new GridLayout(5,2));
47
48         dialogPanel.add(new JLabel("Your Name:"));
49         name = new JTextField("Bob Ross");
50         dialogPanel.add(name);
51
52         dialogPanel.add(new JLabel("Title of Movie:"));
53         title = new JTextField("Avengers");
54         dialogPanel.add(title);
55
56         SimpleDateFormat sdf = new SimpleDateFormat("MM/dd/yyyy");
57         Date today = new Date();
```

```java
58
59          dialogPanel.add(new JLabel("Rented on Date:"));
60          rentDate = new JTextField(sdf.format(today));
61          dialogPanel.add(rentDate);
62
63          today.setTime(today.getTime() + 1*24*60*60*1000);
64          dialogPanel.add(new JLabel("Due on Date:"));
65          dueDate = new JTextField(sdf.format(today));
66          dialogPanel.add(dueDate);
67
68          rent = new JButton("Rent");
69          dialogPanel.add(rent);
70          rent.addActionListener(this);
71
72          cancel = new JButton("Cancel");
73          dialogPanel.add(cancel);
74          cancel.addActionListener(this);
75          add(dialogPanel);
76          setSize(500,500);
77          setVisible(true);
78      }
79
80      /****************************************************************
81       * gets the dvd for the gui when called
82       * @return rental the dvd that was rented
83       ****************************************************************/
84      public DVD getRentalDVD(){
85          return rental;
86      }
87
88      /****************************************************************
89       * gets the bluray for the gui when called
90       * @return rental2 the bluray that was rented
91       ****************************************************************/
92      public BlueRay getRentalBlueRay(){
93          return rental2;
94      }
95
96      @Override
97      public void actionPerformed(ActionEvent e) {
98
99          //exits dialog without doing anything
100         if (e.getSource() == cancel){
101             dispose();
102         }
103
104         // stores info in textfields into a dvd/blueray
105         if (e.getSource() == rent){
106             try{
107                 SimpleDateFormat sdf = new SimpleDateFormat("MM/dd/yyyy");
108                 Date temp1 = sdf.parse(rentDate.getText());
109                 Date temp2 = sdf.parse(dueDate.getText());
110
111                 GregorianCalendar temp3 = new GregorianCalendar(temp1.getYear(),
       temp1.getMonth(), temp1.getDay());
112                 GregorianCalendar temp4 = new GregorianCalendar(temp2.getYear(),
       temp2.getMonth(), temp2.getDay());
```

```
113
114                    rental = new DVD(temp3, temp4, title.getText(), name.getText());
115                    rental2 = new BlueRay(temp3, temp4, title.getText(), name.getText());
116                    setVisible(false);
117            }catch(ParseException ex){
118
119            }
120        }
121
122    }
123 }
124
```