

Game.java

```
1 package project4;
2
3 import java.text.DateFormat;
4 import java.text.SimpleDateFormat;
5 import java.util.GregorianCalendar;
6 import java.util.concurrent.TimeUnit;
7
8 public class Game extends DVD{
9
10     /** Represents the type of player */
11     private String player;
12
13     /**
14      * constructor for Game class
15      * @param bought date game was rented
16      * @param dueBack date game is due
17      * @param title title of game
18      * @param nameOfRenter name of game renter
19      * @param gamePlayer type of game player
20      */
21     public Game(GregorianCalendar bought, GregorianCalendar dueBack,
22                 String title, String nameOfRenter, String gamePlayer) {
23
24         super(bought, dueBack, title, nameOfRenter);
25         this.player = gamePlayer;
26     }
27
28     /**
29      * getter for game player
30      * @return player the type of game player
31      */
32     public String getPlayer() {
33         return player;
34     }
35
36     /**
37      * setter for game player
38      * @param player the type of game player
39      */
40     public void setPlayer(String player) {
41         this.player = player;
42     }
43
44     /**
45      * returns a string detailing the total cost of a rental
46      * @param returnDate the date the rental was returned
47      * @return costDialog the string detailing all the information
48      */
49     public String getCost(GregorianCalendar returnDate){
50         int daysLate = 0;
51         try{
52             daysLate = (int) TimeUnit.MILLISECONDS.toDays
53                 (dueBack.getTimeInMillis() - returnDate.getTimeInMillis());
54         }catch(IllegalArgumentException e){
55
56         }
57     }
```

```

58
59     int cost = 3;
60
61     String costDialog = "Base Cost = $3.00" + "\n";
62
63     // appends string with extra details if it's late
64     if (daysLate > 0){
65         cost += 3 + daysLate;
66         costDialog += "Late fee: $3.00 + $1.00 per day late" + "\n";
67         costDialog += "Days late: " + daysLate + "\n";
68     }
69
70     costDialog += "Total cost: $" + cost + ".00";
71
72     return costDialog;
73 }
74
75 /*****
76  * converts DVD's information into a string
77  *****/
78 public String toString(){
79     String description = "";
80     SimpleDateFormat sdf = new SimpleDateFormat("MM/dd/yy");
81     String rentedOn = sdf.format(bought.getTime());
82     String dueOn = sdf.format(dueBack.getTime());
83
84     description = "Name: " + nameOfRenter + " , Title: " + title +
85         ", Rented On: " + rentedOn + ", Due Back On: " + dueOn +
86         ", Game Player: " + player;
87
88     return description;
89 }
90
91 }
92

```