```
28  /* Generated by Together */
29
30      package bikeshop;
31
32      import java.util.Date;
33
34      public class IssueBikeUI {
35
36      // Set up the member variables
37      private Bike chosenBike = null;
38      private Customer customer = null;
39      private Payment payment = null;
40      private Hire hire = null;
41      private int numberOfDays = 0;
42
42      public void showBikeDetails(int bikeNum){
43          // Find the bike by its number
44          chosenBike = Bike.findBikeByNumber(bikeNum);
45          if(chosenBike !=null){
46              // then ask it for its details
47              chosenBike.showDetails( );
48          }
49      }
50      public void calculateCost(int numDays){
51          // set the member variable so it can be used later
52          numberOfDays = numDays;
53          // then ask the bike for the cost
54          chosenBike.calculateCost(numDays);
55      }
56
57      public void createCustomer(String name, String postcode, int telephone){
58          // Create a customer and associated hire and payment
59          customer = new Customer(name, postcode, telephone);
60          payment = new Payment(customer);
61          hire = new Hire(new Date( ), numberOfDays, chosenBike, customer);
62      }
63
64      public void calculateTotalPayment( ){
65          // get the total payment from the payment object
66          payment.calculateTotalPayment(hire);
67      }
68      }
```

Figure 11.6   Code for the IssueBikeUI class

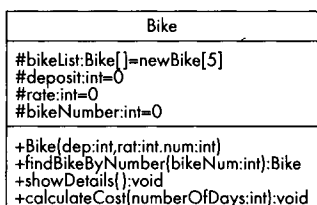| Bike |
| --- |
| #bikeList:Bike[ ]=newBike[5]
#deposit:int=0
#rate:int=0
#bikeNumber:int=0 |
| +Bike(dep:int,rat:int.num:int)
+findBikeByNumber(bikeNum:int):Bike
+showDetails( ):void
+calculateCost(numberOfDays:int):void |

Figure 11.7   Class diagram for the Bike class