```java
1   /**
2    * A generic loyalty card scheme for a university bookshop with the ability to
     track points, as well as card owner details.
3    *
4    * @author (Grant Allenby)
5    * @version (v1.0 11/10/18)
6    */
7   public class LoyaltyCard
8   {
9       //students card number.
10      private String cardNumber;
11      //students title (mr, dr, mrs, miss, sir, rev).
12      private String title;
13      //students forename (first name).
14      private String firstName;
15      //students surname (last name).
16      private String lastName;
17      //students points earned on the loyalty card.
18      private int points;
19
20      /** Constructor consisting of the students card number, title, first name and
     last name.
21       *  @param cardNumber students card number.
22       *  @param title students title.
23       *  @param firstName students first name.
24       *  @param lastName students last name.
25       */
26      public LoyaltyCard(String theCardNumber, String theTitle, String
     theFirstName, String theLastName)
27      {
28          cardNumber =theCardNumber;
29          title = theTitle;
30          firstName = theFirstName;
31          lastName = theLastName;
32          points = 0;
33      }
34
35      /** Constructor consisting of the students card number, title, first name and
     last name.
36       *  @param cardNumber customers card number.
37       *  @param title customers title.
38       *  @param firstName customers first name.
39       *  @param lastName customers last name.
40       */
41      public LoyaltyCard(String theCardNumber, String theTitle, String
     theFirstName, String theLastName, int thePoints)
42      {
43          cardNumber =theCardNumber;
44          title = theTitle;
45          firstName = theFirstName;
46          lastName = theLastName;
47          points = thePoints;
48      }
49
```

```
50        /** accessor method that fetches the card number of the student.
51         *  @return the card number of the students.
52         */
53        public String getcardNumber()
54        {
55            return cardNumber;
56        }
57
58        /** accessor method that fetches the title of the student.
59         *  @return the title of the customer.
60         */
61        public String getTitle()
62        {
63            return title;
64        }
65
66        /** accessor method that fetches the first name of the student.
67         *  @return the first name of the customer.
68         */
69        public String getFirstName()
70        {
71            return firstName;
72        }
73
74        /**accessor method that fetches the last name of the student.
75         * @return the last name of the student.
76         */
77        public String getLastName()
78        {
79            return lastName;
80        }
81
82        /** accessor method that fetches the points the student has on his card
83         *  @return the points of the student.
84         */
85        public int getPoints()
86        {
87            return points;
88        }
89
90        /** mutator method that allows for revising the title of the student.
91         *  @param newTitle revised title of the student.
92         */
93        public void setTitle(String newTitle)
94        {
95            title = newTitle;
96        }
97
98        /** mutator method that allows for revising the first name of the student.
99         *  @param newFirstName revised first name of the student.
100        */
101       public void setFirstName(String newFirstName)
102       {
103           firstName = newFirstName;
```

```
104            }
105
106            /** mutator method that allows for revising the last name of the student.
107             *  @param newLastName revised last name of the student.
108             */
109            public void setLastName(String newLastName)
110            {
111                lastName = newLastName;
112            }
113
114            /** mutator method that allows for revising the points on the students
      balance.
115             *  @param revisedPoints revised points of the student.
116             */
117            public void setRevisedPoints(int revisedPoints)
118            {
119                points = revisedPoints;
120            }
121
122            /** method that prints the students details
123             *
124             */
125            public void printCustomerDetails()
126            {
127                System.out.println(title + " " + firstName + " " + lastName);
128                System.out.println("Card Number: " + cardNumber);
129                System.out.println("Points available: " + points);
130            }
131    }
```