

```
1  import java.util.*;
2  /**
3   * Write a description of class LoyaltyCardList here.
4   *
5   * @author (Grant Allenby)
6   * @version (V1.0 5/12/18)
7   */
8  public class LoyaltyCardList
9  {
10     private ArrayList<LoyaltyCard> loyaltyCards;
11
12     /**
13      * Constructor for objects of class LoyaltyCardList
14      */
15     public LoyaltyCardList()
16     {
17         loyaltyCards = new ArrayList<LoyaltyCard>();
18     }
19
20     /**
21      * Method that allows for adding of a loyalty card to the loyalty card array
22      list.
23      */
24     public void addLoyaltyCard(LoyaltyCard loyaltyCard)
25     {
26         loyaltyCards.add(loyaltyCard);
27     }
28
29     /**
30      * @return the number of loyalty cards.
31      */
32     public int getNumberOfLoyaltyCards()
33     {
34         return loyaltyCards.size();
35     }
36
37     /**
38      *
39      */
40     public void getLoyaltyCard(int loyaltyCardEntry)
41     {
42         if (loyaltyCardEntry < 0)
43         {
44             System.out.println("Negative entry: " + loyaltyCardEntry);
45         }
46         else if (loyaltyCardEntry < getNumberOfLoyaltyCards())
47         {
48             LoyaltyCard loyaltyCard = loyaltyCards.get(loyaltyCardEntry);
49             loyaltyCard.printCustomerDetails();
50         }
51         else
52         {
53             System.out.println("No such entry: " + loyaltyCardEntry);
54         }
55     }
56 }
```

```
54     }
55
56     /**
57     *
58     */
59     public void getAllLoyaltyCards()
60     {
61         for(LoyaltyCard loyaltyCard : loyaltyCards)
62         {
63             loyaltyCard.printCustomerDetails();
64             System.out.println();
65         }
66     }
67
68     public boolean getLoyaltyCard(String cardNumber)
69     {
70         int index = 0;
71         for (LoyaltyCard loyaltyCard: loyaltyCards)
72         {
73             if (cardNumber.equals(loyaltyCard.getCardNumber()))
74             {
75                 loyaltyCards.get(index);
76                 return true;
77             }
78         }
79         return false;
80     }
81
82     /**
83     *
84     */
85     public void removeLoyaltyCard(int loyaltyCardEntry)
86     {
87         if(loyaltyCardEntry < 0)
88         {
89             System.out.println("Negative entry :" + loyaltyCardEntry);
90         }
91         else if(loyaltyCardEntry < getNumberOfLoyaltyCards())
92         {
93             loyaltyCards.remove(loyaltyCardEntry);
94         }
95         else
96         {
97             System.out.println("No such entry :" + loyaltyCardEntry);
98         }
99     }
100
101     /**
102     *
103     */
104     public boolean removeLoyaltyCard(String cardNumber)
105     {
106         int index = 0;
107         for (LoyaltyCard loyaltyCard: loyaltyCards)
```

```
108         {
109             if (cardNumber.equals(loyaltyCard.getCardNumber()))
110             {
111                 loyaltyCards.remove(index);
112                 return true;
113             }
114             index++;
115         }
116         return false;
117     }
118
119     /**
120     *
121     */
122     public int search(String cardNumber)
123     {
124         int index = 0;
125         for (LoyaltyCard loyaltyCard : loyaltyCards)
126         {
127             if (cardNumber.equals(loyaltyCard.getCardNumber()))
128             {
129                 return index;
130             }
131             else
132             {
133                 index++;
134             }
135         }
136         return -1;
137     }
138 }
139
```