

```
1  import java.util.Scanner;
2  /**
3   * Write a description of class LoyaltyCardTUI here.
4   *
5   * @author (Grant Allenby)
6   * @version (v1.0 6/12/18)
7   */
8  public class LoyaltyCardTUI
9  {
10     private LoyaltyCard loyaltyCard;
11     private LoyaltyCardList loyaltyCardList;
12     Scanner myScanner;
13
14     /**
15      * Constructor for the objects of class.
16      */
17     public LoyaltyCardTUI()
18     {
19         loyaltyCard = new LoyaltyCard();
20         myScanner = new Scanner(System.in);
21     }
22
23     /**
24      * Provides the main user interface for the program.
25      */
26     public void menu()
27     {
28         int command = -1;
29         while (command != 0)
30         {
31             displayMenu();
32             command = getCommand();
33             execute(command);
34         }
35     }
36
37     private void addLoyaltyCard()
38     {
39         System.out.println("Enter Loyalty Card Holders first name: ");
40         String firstName = myScanner.nextLine();
41         System.out.println("Enter Loyalty Card Holders second name: ");
42         String surName = myScanner.nextLine();
43         System.out.println("Enter Loyalty Card street: ");
44         String street = myScanner.nextLine();
45         System.out.println("Enter Loyalty Card Holders second town: ");
46         String town = myScanner.nextLine();
47         System.out.println("Enter Loyalty Card Holders postcode: ");
48         String postcode = myScanner.nextLine();
49         System.out.println("Enter Loyalty Card Holders points ");
50         String points = myScanner.nextLine();
51     }
52
53     /**
54      * Displays the inputs available to the user.
```

```
55     */
56     private void displayMenu()
57     {
58         String menuString = "Please select an option:.....[X]\n";
59         menuString += "Get number of loyalty cards.....[1]\n";
60         menuString += "Find loyalty card by name.....[2]\n";
61         menuString += "Add loyalty card.....[3]\n";
62         menuString += "Remove loyalty card.....[4]\n";
63         menuString += "Show loyalty card.....[5]\n";
64         menuString += "Show all loyalty card.....[6]\n";
65         menuString += "quit.....[7]\n";
66     }
67
68     /**
69     * Processes thee commands if allowed.
70     * @param command the command entered by the user.
71     */
72     private void execute(int command)
73     {
74         // Else if chain for commands.
75         if (command == 1)
76         {
77             getNumberOfLoyaltyCards();
78         }
79         else if (command == 2)
80         {
81             showLoyaltyCard();
82         }
83         else if (command == 3)
84         {
85             addLoyaltyCard();
86         }
87         else if (command == 4)
88         {
89             removeLoyaltyCard();
90         }
91         else if (command == 5)
92         {
93             showLoyaltyCard();
94         }
95         else if (command == 6)
96         {
97             showAllLoyaltyCards();
98         }
99         else if (command == 7)
100        {
101            quitCommand();
102        }
103    }
104
105
106     /**
107     * Grabs the users command.
108     * one command per line.
```

```
109      * @return command the user command.
110      */
111      private int getCommand()
112      {
113          int command = myScanner.nextInt();
114          myScanner.nextLine();
115          return command;
116      }
117
118      public void getNumberOfLoyaltyCards()
119      {
120          System.out.println(LoyaltyCardList.size());
121      }
122
123      private void quitCommand()
124      {
125          System.out.println("Application closing");
126          System.exit(0);
127      }
128
129      public void removeLoyaltyCard()
130      {
131          System.out.print("Enter Loyalty Card number you would like to remove: ");
132          String cardNumber = myScanner.nextLine();
133          if (LoyaltyCardList.removeLoyaltyCard(cardNumber))
134              System.out.println("Loyalty card with card number " + cardNumber + "
135 removed.");
136          else
137              System.out.println("Could not find loyalty card number: " +
138 cardNumber);
139      }
140
141      public void showAllLoyaltyCards()
142      {
143          System.out.println("");
144          loyaltyCardList.getAllLoyaltyCards();
145      }
146
147      public void showLoyaltyCard()
148      {
149          System.out.println("");
150          System.out.println("Enter loyalty card number: ");
151          String cardNumber = myScanner.next();
152          if (loyaltyCardList.getLoyaltyCard(cardNumber))
153          {
154              System.out.println("the loyalty card is: " +
155 LoyaltyCard(cardNumber));
156          }
157          else
158          {
159              System.out.println("Could not find loyalty card for number: " +
160 cardNumber);
161          }
162      }
```

```
159
160     public void unknownCommand(int command)
161     {
162         System.out.println("Invalid Command : "+ command);
163     }
164 }
165
```