

```
1 package proj3;
2 import java.util.ArrayList;
3 import java.util.Scanner;
4
5 /**
6  * A poker game client where players guess which hand
7  * wins in multiple rounds.
8  */
9
10 public class Client {
11
12     /**
13      * Deals a single 5 card poker hand from the deck.
14      * @param deck the deck to deal from
15      * @return a PokerHand containing 5 cards
16      */
17     public static PokerHand dealHand(Deck deck) {
18         ArrayList<Card> cards = new ArrayList<>();
19         for (int i = 0; i < 5; i++) {
20             cards.add(deck.deal());
21         }
22         return new PokerHand(cards);
23     }
24
25     /**
26      * Runs the poker guessing game where players
27      * predict which hand wins.
28      */
29     public static void main(String[] args) {
30         Deck deck = new Deck();
31         deck.shuffle();
32
33         Scanner scanner = new Scanner(System.in);
34         int roundNumber = 1;
35         int correctGuesses = 0;
36
37         while (deck.size() >= 10) {
38             System.out.println("Round " + roundNumber);
```

```
37         PokerHand hand1 = dealHand(deck);
38         PokerHand hand2 = dealHand(deck);
39
40         System.out.println("Hand 1:");
41         System.out.print(hand1);
42         System.out.println("Hand 2:");
43         System.out.print(hand2);
44
45         System.out.print("Who wins? (1 for Hand 1,
2 for Hand 2, 0 for Tie): ");
46         int playerGuess = scanner.nextInt();
47
48         int comparison = hand1.compareTo(hand2);
49         int actualWinner;
50         String result;
51
52         if (comparison > 0) {
53             actualWinner = 1;
54             result = "Hand 1 wins!";
55         } else if (comparison < 0) {
56             actualWinner = 2;
57             result = "Hand 2 wins!";
58         } else {
59             actualWinner = 0;
60             result = "It's a tie!";
61         }
62
63         if (playerGuess == actualWinner) {
64             System.out.println("Correct! " + result
);
65             correctGuesses++;
66         } else {
67             System.out.println("Incorrect. " +
result);
68         }
69
70         System.out.println("Cards remaining: " +
deck.size());
```

```
71         System.out.println();
72
73         roundNumber++;
74     }
75
76     System.out.println("Game Over! Not enough
cards left to play another round.");
77     System.out.println("You played " + (
roundNumber - 1) + " rounds and won " + correctGuesses
+ " times");
78
79     scanner.close();
80 }
81 }
82
83
```