

```
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 public class Client {
10
11     /**
12      * Deals a single 5 card poker hand from the deck.
13      * @param deck the deck to deal from
14      * @return a PokerHand containing 5 cards
15     */
16     public static PokerHand dealHand(Deck deck) {
17         ArrayList<Card> cards = new ArrayList<>();
18         for (int i = 0; i < 5; i++) {
19             cards.add(deck.deal());
20         }
21         return new PokerHand(cards);
22     }
23
24     /**
25      * Runs the poker guessing game where players
26      * predict which hand wins.
27     */
28     public static void main(String[] args) {
29         Deck deck = new Deck();
30         deck.shuffle();
31
32         Scanner scanner = new Scanner(System.in);
33         int roundNumber = 1;
34         int correctGuesses = 0;
35
36         while (deck.size() >= 10) {
37             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,
46         2 for Hand 2, 0 for Tie): ");
47
48         int playerGuess = scanner.nextInt();
49
50         int comparison = hand1.compareTo(hand2);
51         int actualWinner;
52         String result;
53
54         if (comparison > 0) {
55             actualWinner = 1;
56             result = "Hand 1 wins!";
57         } else if (comparison < 0) {
58             actualWinner = 2;
59             result = "Hand 2 wins!";
60         } else {
61             actualWinner = 0;
62             result = "It's a tie!";
63         }
64
65         if (playerGuess == actualWinner) {
66             System.out.println("Correct! " + result
67 );
68             correctGuesses++;
69         } else {
70             System.out.println("Incorrect. " +
71             result);
72         }
73
74         System.out.println("Cards remaining: " +
75         deck.size());
```

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