

# Intro to Java Week 6 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

**Instructions:** In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your Java project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

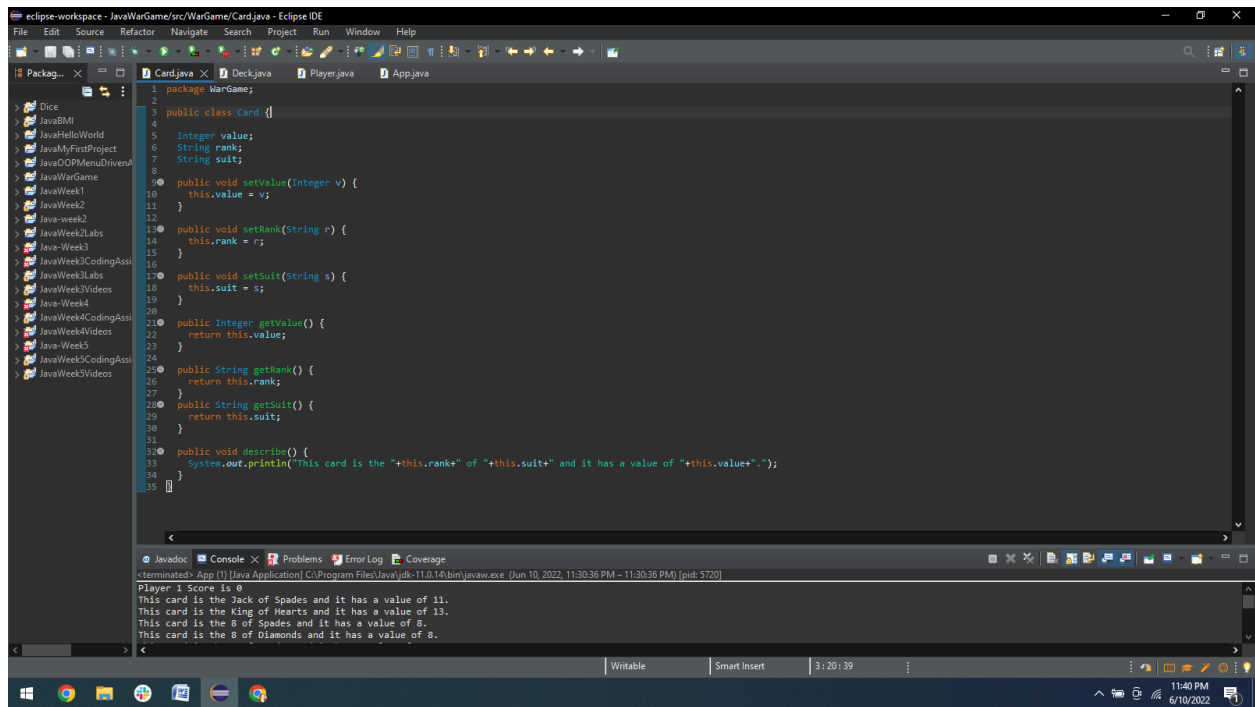
## Coding Steps:

For the final project you will be creating an automated version of the classic card game *WAR*.

1. Create the following classes.
  - a. Card
    - i. Fields
      1. **value** (contains a value from 2-14 representing cards 2-Ace)
      2. **name** (e.g. Ace of Diamonds, or Two of Hearts)
    - ii. Methods
      1. Getters and Setters
      2. **describe** (prints out information about a card)
  - b. Deck
    - i. Fields
      1. **cards** (List of Card)
    - ii. Methods
      1. **shuffle** (randomizes the order of the cards)
      2. **draw** (removes and returns the top card of the Cards field)

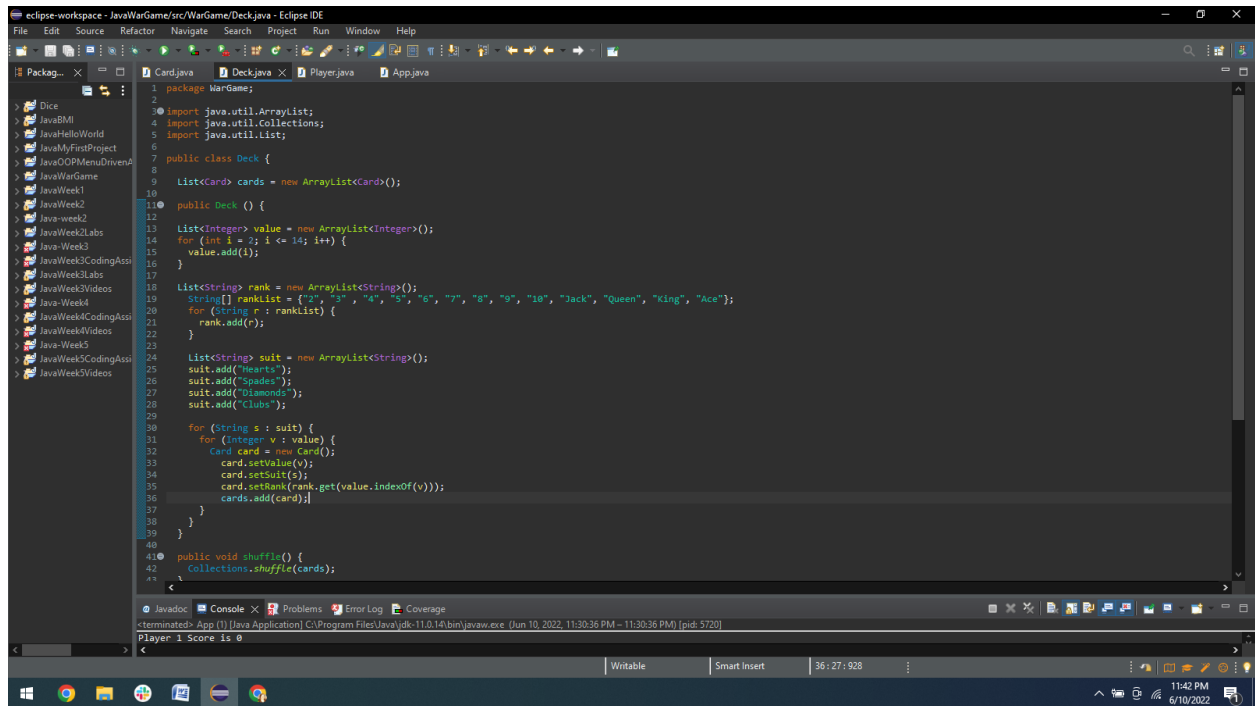
3. In the constructor, when a new Deck is instantiated, the Cards field should be populated with the standard 52 cards.
- c. Player
    - i. Fields
      1. **hand** (List of Card)
      2. **score** (set to 0 in the constructor)
      3. **name**
    - ii. Methods
      1. **describe** (prints out information about the player and calls the describe method for each card in the Hand List)
      2. **flip** (removes and returns the top card of the Hand)
      3. **draw** (takes a Deck as an argument and calls the draw method on the deck, adding the returned Card to the hand field)
      4. **incrementScore** (adds 1 to the Player's score field)
  2. Create a class called App with a main method.
  3. Instantiate a Deck and two Players, call the shuffle method on the deck.
  4. Using a traditional for loop, iterate 52 times calling the Draw method on the other player each iteration using the Deck you instantiated.
  5. Using a traditional for loop, iterate 26 times and call the flip method for each player.
    - a. Compare the value of each card returned by the two player's flip methods. Call the incrementScore method on the player whose card has the higher value.
  6. After the loop, compare the final score from each player.
  7. Print the final score of each player and either "Player 1", "Player 2", or "Draw" depending on which score is higher or if they are both the same.

### Screenshots of Code:



```
1 package WarGame;
2
3 public class Card {
4     Integer value;
5     String rank;
6     String suit;
7
8     public void setValue(Integer v) {
9         this.value = v;
10    }
11
12    public void setRank(String r) {
13        this.rank = r;
14    }
15
16    public void setSuit(String s) {
17        this.suit = s;
18    }
19
20    public Integer getValue() {
21        return this.value;
22    }
23
24    public String getRank() {
25        return this.rank;
26    }
27
28    public String getSuit() {
29        return this.suit;
30    }
31
32    public void describe() {
33        System.out.println("This card is the "+this.rank+" of "+this.suit+" and it has a value of "+this.value+";");
34    }
35}
```

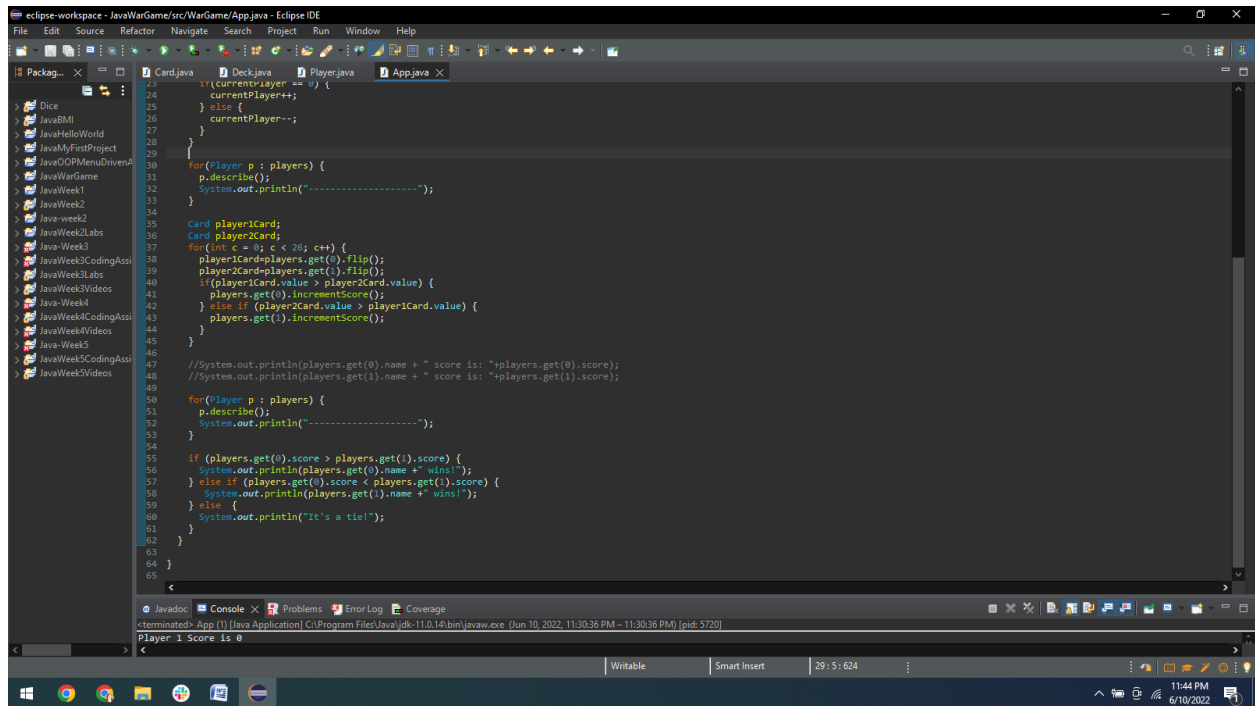
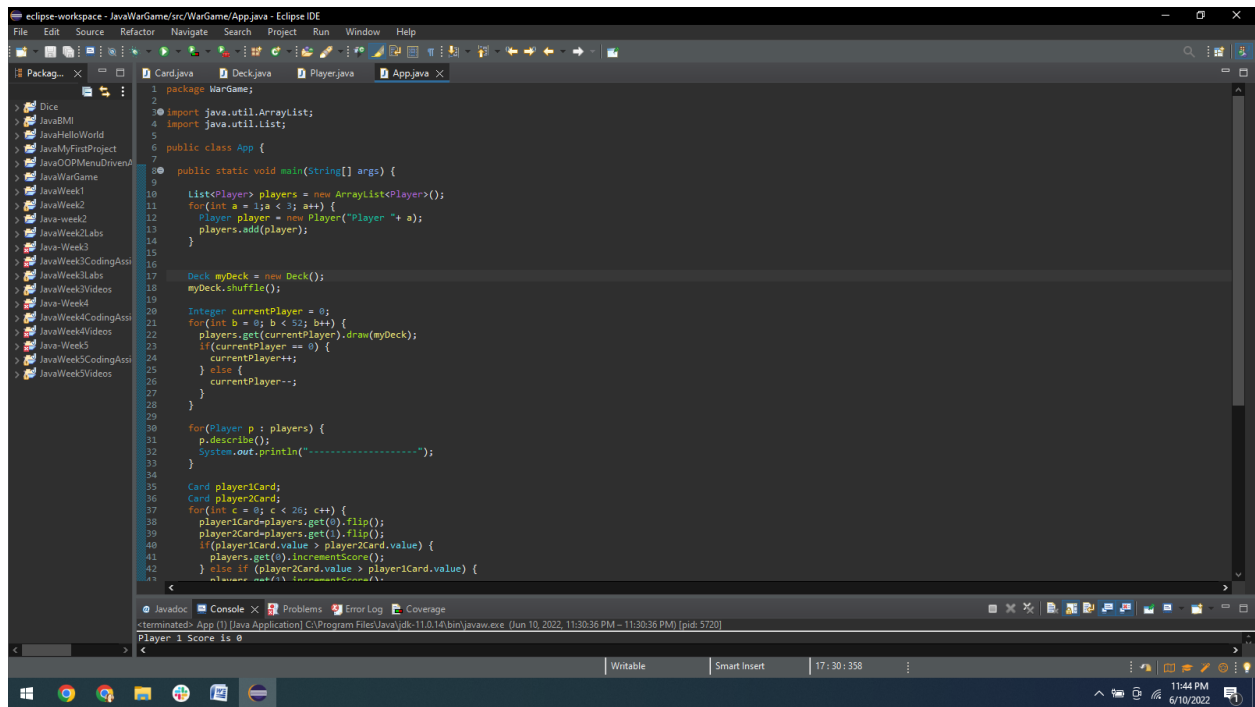
Player 1 Score is 0  
This card is the Jack of Spades and it has a value of 11.  
This card is the King of Hearts and it has a value of 13.  
This card is the 8 of Spades and it has a value of 8.  
This card is the 8 of Diamonds and it has a value of 8.



```
1 package WarGame;
2
3 import java.util.ArrayList;
4 import java.util.Collections;
5 import java.util.List;
6
7 public class Deck {
8
9     List<Card> cards = new ArrayList<Card>();
10
11    public Deck () {
12
13        List<Integer> value = new ArrayList<Integer>();
14        for (int i = 2; i <= 14; i++) {
15            value.add(i);
16        }
17
18        List<String> rank = new ArrayList<String>();
19        String[] rankList = {"2", "3", "4", "5", "6", "7", "8", "9", "10", "Jack", "Queen", "King", "Ace"};
20        for (String r : rankList) {
21            rank.add(r);
22        }
23
24        List<String> suit = new ArrayList<String>();
25        suit.add("Hearts");
26        suit.add("Spades");
27        suit.add("Diamonds");
28        suit.add("Clubs");
29
30        for (String s : suit) {
31            for (Integer v : value) {
32                Card card = new Card();
33                card.setValue(v);
34                card.setSuit(s);
35                card.setRank(rank.get(value.indexOf(v)));
36                cards.add(card);
37            }
38        }
39
40    public void shuffle() {
41        Collections.shuffle(cards);
42    }
43}
```

Player 1 Score is 0

```
eclipse-workspace - JavaWarGame/src/WarGame/Deck.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer: Dice, JavaBll, JavaHelloWorld, JavaMyFirstProject, JavaOOMMenuDriven, JavaWarGame, JavaWeek1, JavaWeek2, Java-week2, JavaWeek2Labs, JavaWeek3, JavaWeek3CodingAssi, JavaWeek3Labs, JavaWeek3Videos, JavaWeek4, JavaWeek4CodingAssi, JavaWeek4Videos, JavaWeek5, JavaWeek5CodingAssi, JavaWeek5Videos
Editor: Deck.java
1 package WarGame;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 public class Deck {
7     String name;
8     Integer score = 0;
9     List<Card> hand = new ArrayList<Card>();
10
11     public Deck(String name) {
12         this.name = name;
13     }
14
15     public void incrementScore() {
16         score++;
17     }
18
19     public void draw(Deck d) {
20         hand.add(d.draw());
21     }
22
23     public Card flip() {
24         return hand.remove(0);
25     }
26
27     public void describe() {
28         System.out.println(name + " Score is " + score);
29         for (Card c : hand) {
30             c.describe();
31         }
32     }
33 }
34
35 1. Fields
36 1. hand (List of Card)
37 2. score (set to 0 in the constructor)
38 3. name
39
40 1. Methods
41 1. describe (prints out information about the player and calls the describe method for each card in the Hand List)
42 2. flip (removes and returns the top card of the Hand)
43 3. draw (takes a Deck as an argument and calls the draw method on the deck, adding the returned Card to the hand field)
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**Screenshots of Running Application:**

```
Player 1 Score is 0
This card is the 10 of Clubs and it has a value of 10.
This card is the Ace of Clubs and it has a value of 14.
This card is the 8 of Clubs and it has a value of 8.
This card is the 10 of Spades and it has a value of 10.
This card is the 4 of Hearts and it has a value of 4.
This card is the Jack of Clubs and it has a value of 11.
This card is the 7 of Clubs and it has a value of 7.
This card is the 6 of Spades and it has a value of 6.
This card is the 6 of Clubs and it has a value of 6.
This card is the 3 of Spades and it has a value of 3.
This card is the 6 of Hearts and it has a value of 6.
This card is the 10 of Hearts and it has a value of 10.
This card is the 7 of Hearts and it has a value of 7.
This card is the King of Diamonds and it has a value of 13.
This card is the 5 of Hearts and it has a value of 5.
This card is the 2 of Diamonds and it has a value of 2.
This card is the 2 of Spades and it has a value of 2.
This card is the 6 of Diamonds and it has a value of 6.
This card is the 8 of Diamonds and it has a value of 8.
This card is the 4 of Clubs and it has a value of 4.
This card is the 2 of Hearts and it has a value of 2.
This card is the 5 of Diamonds and it has a value of 5.
This card is the 4 of Diamonds and it has a value of 4.
This card is the King of Hearts and it has a value of 13.
This card is the 7 of Spades and it has a value of 7.
This card is the Ace of Hearts and it has a value of 14.
-----
Player 2 Score is 0
This card is the Queen of Clubs and it has a value of 12.
This card is the 7 of Diamonds and it has a value of 7.
This card is the 3 of Hearts and it has a value of 3.
This card is the 3 of Diamonds and it has a value of 3.
This card is the Ace of Spades and it has a value of 14.
This card is the 9 of Spades and it has a value of 9.
This card is the King of Clubs and it has a value of 13.
This card is the 5 of Clubs and it has a value of 5.
This card is the Jack of Hearts and it has a value of 11.
This card is the 10 of Diamonds and it has a value of 10.
This card is the 3 of Clubs and it has a value of 3.
This card is the 9 of Clubs and it has a value of 9.
-----
Player 1 Score is 12
Player 2 Score is 14
Player 2 wins!
```

Player 2 wins

```
Player 2 Score is 0
This card is the Queen of Clubs and it has a value of 12.
This card is the 7 of Diamonds and it has a value of 7.
This card is the 3 of Hearts and it has a value of 3.
This card is the 3 of Diamonds and it has a value of 3.
This card is the Ace of Spades and it has a value of 14.
This card is the 9 of Spades and it has a value of 9.
This card is the King of Clubs and it has a value of 13.
This card is the 5 of Clubs and it has a value of 5.
This card is the Jack of Hearts and it has a value of 11.
This card is the 10 of Diamonds and it has a value of 10.
This card is the 3 of Clubs and it has a value of 3.
This card is the 9 of Clubs and it has a value of 9.
This card is the 9 of Hearts and it has a value of 9.
This card is the Ace of Diamonds and it has a value of 14.
This card is the 8 of Spades and it has a value of 8.
This card is the Queen of Diamonds and it has a value of 12.
This card is the 4 of Spades and it has a value of 4.
This card is the 9 of Diamonds and it has a value of 9.
This card is the Queen of Spades and it has a value of 12.
This card is the Jack of Diamonds and it has a value of 11.
This card is the Queen of Hearts and it has a value of 12.
This card is the 2 of Clubs and it has a value of 2.
This card is the 5 of Spades and it has a value of 5.
This card is the 8 of Hearts and it has a value of 8.
This card is the King of Spades and it has a value of 13.
-----
Player 1 Score is 12
Player 2 Score is 14
Player 2 wins!
```

Player 1 wins

```
Player 1 Score is 0
This card is the 6 of Spades and it has a value of 6.
This card is the Queen of Hearts and it has a value of 12.
This card is the 10 of Hearts and it has a value of 10.
This card is the 6 of Hearts and it has a value of 6.
This card is the 8 of Spades and it has a value of 8.
This card is the 4 of Spades and it has a value of 4.
This card is the 7 of Spades and it has a value of 7.
This card is the 3 of Clubs and it has a value of 3.
This card is the Queen of Diamonds and it has a value of 12.
This card is the King of Spades and it has a value of 13.
This card is the Jack of Diamonds and it has a value of 11.
This card is the 2 of Clubs and it has a value of 2.
This card is the 3 of Spades and it has a value of 3.
This card is the Queen of Clubs and it has a value of 12.
This card is the 3 of Hearts and it has a value of 3.
This card is the 8 of Clubs and it has a value of 8.
This card is the Ace of Spades and it has a value of 14.
This card is the 7 of Hearts and it has a value of 7.
This card is the 2 of Spades and it has a value of 2.
This card is the King of Clubs and it has a value of 13.
This card is the 4 of Clubs and it has a value of 4.
This card is the Jack of Hearts and it has a value of 11.
This card is the 7 of Clubs and it has a value of 7.
This card is the 10 of Spades and it has a value of 10.
This card is the Ace of Diamonds and it has a value of 14.
-----
Player 2 Score is 0
This card is the 5 of Spades and it has a value of 5.
This card is the Ace of Clubs and it has a value of 14.
This card is the 10 of Diamonds and it has a value of 10.
This card is the 5 of Hearts and it has a value of 5.
This card is the King of Diamonds and it has a value of 13.
This card is the 6 of Diamonds and it has a value of 6.
This card is the 6 of Clubs and it has a value of 6.
This card is the 4 of Diamonds and it has a value of 4.
This card is the 9 of Hearts and it has a value of 9.
This card is the 9 of Clubs and it has a value of 9.
This card is the 4 of Hearts and it has a value of 4.
This card is the King of Hearts and it has a value of 13.
```

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-----
Player 2 Score is 0
This card is the 5 of Spades and it has a value of 5.
This card is the Ace of Clubs and it has a value of 14.
This card is the 10 of Diamonds and it has a value of 10.
This card is the 5 of Hearts and it has a value of 5.
This card is the King of Diamonds and it has a value of 13.
This card is the 6 of Diamonds and it has a value of 6.
This card is the 6 of Clubs and it has a value of 6.
This card is the 4 of Diamonds and it has a value of 4.
This card is the 9 of Hearts and it has a value of 9.
This card is the 9 of Clubs and it has a value of 9.
This card is the 4 of Hearts and it has a value of 4.
This card is the King of Hearts and it has a value of 13.
This card is the 2 of Hearts and it has a value of 2.
This card is the 2 of Diamonds and it has a value of 2.
This card is the 3 of Diamonds and it has a value of 3.
This card is the Jack of Spades and it has a value of 11.
This card is the Jack of Clubs and it has a value of 11.
This card is the 8 of Hearts and it has a value of 8.
This card is the 7 of Diamonds and it has a value of 7.
This card is the 5 of Diamonds and it has a value of 5.
This card is the 8 of Diamonds and it has a value of 8.
This card is the 9 of Diamonds and it has a value of 9.
This card is the 10 of Clubs and it has a value of 10.
This card is the 9 of Spades and it has a value of 9.
This card is the Ace of Hearts and it has a value of 14.
This card is the 5 of Clubs and it has a value of 5.
-----
Player 1 Score is 12
Player 2 Score is 11
Player 1 wins!
```

It's a tie

```
eclipse-workspace - JavaWarGame/src/WarGame/App.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Packag... x D Card.java D Deck.java D Player.java D App.java x
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11 {currentPlayer += 1;
currentPlayer++;
}

JavaDoc Console Problems ErrorLog Coverage
<terminated> App (1) [Java Application] C:\Program Files\Java\jdk-11.0.14\bin\javaw.exe (Jun 10, 2022, 11:48:39 PM) [pid: 14608]
Player 1 Score is 0
This card is the 7 of Spades and it has a value of 7.
This card is the 6 of Spades and it has a value of 6.
This card is the 4 of Clubs and it has a value of 4.
This card is the 8 of Diamonds and it has a value of 8.
This card is the 6 of Clubs and it has a value of 6.
This card is the Jack of Diamonds and it has a value of 11.
This card is the 6 of Diamonds and it has a value of 6.
This card is the Jack of Spades and it has a value of 11.
This card is the King of Clubs and it has a value of 13.
This card is the 10 of Hearts and it has a value of 10.
This card is the Ace of Spades and it has a value of 14.
This card is the 4 of Spades and it has a value of 4.
This card is the 4 of Diamonds and it has a value of 4.
This card is the Queen of Hearts and it has a value of 12.
This card is the 3 of Diamonds and it has a value of 3.
This card is the 7 of Diamonds and it has a value of 7.
This card is the King of Spades and it has a value of 13.
This card is the 10 of Clubs and it has a value of 10.
This card is the 7 of Hearts and it has a value of 7.
This card is the 2 of Spades and it has a value of 2.
This card is the 3 of Hearts and it has a value of 3.
This card is the 2 of Hearts and it has a value of 2.
This card is the 9 of Clubs and it has a value of 9.
This card is the 5 of Hearts and it has a value of 5.
This card is the King of Diamonds and it has a value of 13.
This card is the Ace of Hearts and it has a value of 14.
-----
Player 2 Score is 0
This card is the Queen of Spades and it has a value of 12.
This card is the 3 of Spades and it has a value of 3.
This card is the 5 of Spades and it has a value of 5.
This card is the 2 of Diamonds and it has a value of 2.
This card is the 6 of Hearts and it has a value of 6.
This card is the Jack of Clubs and it has a value of 11.
This card is the King of Hearts and it has a value of 13.
This card is the 3 of Clubs and it has a value of 3.
This card is the Queen of Clubs and it has a value of 12.
This card is the 10 of Diamonds and it has a value of 10.
This card is the 8 of Spades and it has a value of 8.
This card is the 9 of Diamonds and it has a value of 9.
-----
Player 1 Score is 11
-----
Player 2 Score is 11
-----
It's a tie!
```

```
eclipse-workspace - JavaWarGame/src/WarGame/App.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Packag... x D Card.java D Deck.java D Player.java D App.java x
24
11 {currentPlayer += 1;
currentPlayer++;
}

JavaDoc Console Problems ErrorLog Coverage
<terminated> App (1) [Java Application] C:\Program Files\Java\jdk-11.0.14\bin\javaw.exe (Jun 10, 2022, 11:48:39 PM) [pid: 14608]
This card is the 3 of Hearts and it has a value of 3.
This card is the 2 of Hearts and it has a value of 2.
This card is the 9 of Clubs and it has a value of 9.
This card is the 5 of Hearts and it has a value of 5.
This card is the King of Diamonds and it has a value of 13.
This card is the Ace of Hearts and it has a value of 14.
-----
Player 2 Score is 0
This card is the Queen of Spades and it has a value of 12.
This card is the 3 of Spades and it has a value of 3.
This card is the 5 of Spades and it has a value of 5.
This card is the 2 of Diamonds and it has a value of 2.
This card is the 6 of Hearts and it has a value of 6.
This card is the Jack of Clubs and it has a value of 11.
This card is the King of Hearts and it has a value of 13.
This card is the 3 of Clubs and it has a value of 3.
This card is the Queen of Clubs and it has a value of 12.
This card is the 10 of Diamonds and it has a value of 10.
This card is the 8 of Spades and it has a value of 8.
This card is the 9 of Diamonds and it has a value of 9.
This card is the 4 of Hearts and it has a value of 4.
This card is the Jack of Hearts and it has a value of 11.
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This card is the 9 of Spades and it has a value of 9.
This card is the 8 of Clubs and it has a value of 8.
This card is the Ace of Clubs and it has a value of 14.
This card is the 2 of Clubs and it has a value of 2.
This card is the Queen of Diamonds and it has a value of 12.
This card is the 5 of Clubs and it has a value of 5.
This card is the 10 of Spades and it has a value of 10.
This card is the 7 of Clubs and it has a value of 7.
This card is the 9 of Hearts and it has a value of 9.
This card is the 5 of Diamonds and it has a value of 5.
This card is the 8 of Hearts and it has a value of 8.
-----
Player 1 Score is 11
-----
Player 2 Score is 11
-----
It's a tie!
```



**URL to GitHub Repository:**

**<https://github.com/CodingVegas/JavaWarGame>**