## **URL to GitHub Repository:** https://github.com/aliustunyer/Card-Game-War-.git

URL to Public Link of my Video: <a href="https://youtu.be/v6cxxzRrSxo">https://youtu.be/v6cxxzRrSxo</a>

## Main Class (APP);

```
package week6CodingAssignment;
import java.util.Scanner;
public class App
     static Scanner scanner = new Scanner(System.in);
     public static void main(String[] args)
           //Instantiating two players with the names entered by the user.
            Player player1= new Player(getPlayer1Name());
           Player player2= new Player(getPlayer2Name());
         // the user should press 1 to start the game, press 2 to exit, in case of
another user input
         // the system gives a warning to prompt user to enter a valid choice.
         // if the user chooses to start the game a new deck is instantiated with
52 cards
           Deck deck = new Deck();
           // the method below shuffles the cards in the deck randomly.
         // the loop with the method below removes cards from the deck and add the
cards to each player's hand;
         // this method also uses deck.draw(); method that removes and returns the
top card of the Cards field
      for (int i=1; i<=26; i++)
       // the method below with a loop compares the value of the each card
returned by the two player's flip() methods,
       // increments the score for the winner of the turn, shows the number of the
turn, calls the incrementScore()
       // gives information about each player, their score, name using the
player.describe(),
       // and the cards in their hands by using the card.describe(),finally,
prints out the winner of each turn.
     for (int i =1; i<=26; i++)
```

```
// the two methods below in the loop show the updated total score for each
player to indicate game progression.
       // the method below in the loop informs user that the previous turn is over
and asks user input to proceed the game;
       // the user should press 1 to continue, press 2 to exit,
       // in case of another user input, the system gives a warning to prompt user
to enter a valid choice.
       // if the turn number is 26, it informs the user that was the last turn.
       // the method below informs the user when the game is over,
       // compares the final scores and also prints out the final score of each
       // with the name of the winner; or it prints out as draw if the result is a
tie.
 public static String getPlayer1Name() {
       System. out. print ("Enter the name of the first player:");
       return scanner.next();
 public static String getPlayer2Name()
       System out print ("Enter the name of the second player :");
       return scanner.next();
 public static void startGame()
       System.out.println("Press 1 to start the game!");
       System.out.println("Press 2 to exit!");
       String a =scanner.next();
       if (a.equals("1")
       System out println ("The game starts, GOOD LUCK!!!");
       System.out.println "=============="";
       Deck deck = new Deck();
     else if (a.equals("2"))
```

```
System.out.println("Goodbye!!!");
 System exit(0);
 else
 System.out.println("Please enter a valid choice!!!");
public static void infoEachTurn Player player1, Player player2, int i)
   System.out.println("Turn Number : " + i);
   System.out.println("-----"):
   Card player1Hand = player1.flip();
   System.out.print (player1.getName() +"'s hand: ");
   Card player2Hand = player2.flip();
   System.out.print (player2.getName() +"'s hand: ");
   if (player1Hand.getValue() > player2Hand.getValue())
     player1.incrementScore();
   System.out.println(" "+player1.getName()+" wins this turn!!!
   else if (player1Hand.getValue() < player2Hand.getValue()) {</pre>
   player2.incrementScore();
System.out.println(" "+player2.getName()+" wins this turn!!!
   else
     System.out.println(" !!!draw!!! ");
   System.out.println("-----"):
public static void proceedGame(int i)
    if (i!=26)
    System.out.println("-----");
    System.out.println("Turn Number " +i +" is over ");
    System.out.println("-----");
    System.out.println("Press 1 to proceed game!");
    System.out.println("Press 2 to exit!");
    String a =scanner.next();
    if (a.equals("1"))
    else if (a.equals("2"))
    System.out.println("Goodbye!!!");
    System exit(0);
    else
```

```
System.out.println("Please enter a valid choice!!!");
       proceedGame(i);
       else
       System.out.println(">>> This was the last turn <<<");
       System.out.println("==========");
 public static void endGame Player player1, Player player2
                       END OF GAME <<<");
     System.out.println(">>>
     System.out.print("Final Score >>> "+ player1.getName()+ ": ");
     System.out.println(player1.getScore());
     System out print ("Final Score >>> "+ player2 getName() + ": ");
     System.out.println(player2.getScore());
  if (player1.getScore() > player2.getScore())
    System.out.println("==========");
    System.out.println(" "+player1.getName()+" WINS!");
    System.out.println("===========");
   else if (player1.getScore() < player2.getScore())</pre>
   System.out.println(" "+player2.getName()+" WINS!");
   System.out.println("=======");
   else
    System.out.println(" !!!DRAW!!! ");
    Class (Card);
package week6CodingAssignment;
public class Card
   String name;
   String suit;
   int value;
   Card (String name, String suit, int value) (
       this name = name;
       this suit = suit;
       this.value = value;
```

```
public String getName()
            return name;
      public void setName(String name) {
             this.name = name;
      public String getSuit()
       return suit;
      public void setSuit(String suit) {
         this.suit = suit;
      public int getValue()
           return value;
      public void setValue(int value)
             this value = value;
      public void describe ()
           System.out.println ( name + " of " + suit + " --" + " Value: " +
Class (Deck);
package week6CodingAssignment;
import java.util.ArrayList
public class Deck
      List<Card> cards = new ArrayList<Card>();
      Deck () {
            String [] suits = ["Clubs", "Diamonds", "Hearts", "Spades"];
String [] numbers = ["Two", "Three", "Four", "Five", "Six", "Seven",
"Eigth", "Nine", "Ten", "Jack", "Queen", "King", "Ace");

for (int i=0; i<13; i++)
                   int count =2;
                   for (int b=0; b<4;b++)
                         Card card = new Card(numbers[i], suits[b], count);
```

```
public List<Card> getCards() {
           return cards;
      public void setCards (List<Card> cards) {
            this.cards = cards;
      // the method below shows all the information about the cards in the deck
using cards.describe()
   public void describe ()
      int i = 0;
      for (Card card : cards) {
           System.out.println(i);
      public void shuffle
          Collections.shuffle(cards);
      public Card draw()
           Card card = cards.remove(0);
            return card;
Class (Player);
package week6CodingAssignment;
import java.util.ArrayList;
import java.util.List;
public class Player {
      List<Card> hand = new ArrayList<Card>();
      int score =0;
      String name ;
      Player (String name) {
            this.name =name;
      }
      Player (List<Card> hand, String name, int score) {
            this.hand = hand;
            this.name = name;
            this.score = score;
```

```
}
     public List<Card> gethand() {
          return hand;
     public void sethand(List<Card> hand) {
           this.hand = hand;
     public int getScore() {
           return score;
     }
     public void setScore(int score) {
           this.score = score;
     public String getName() {
          return name;
     public void setName(String name) {
          this.name = name;
     }
     //the method below is defined to show information for each player, their
score, name,
     //and the cards in their hands by using the card.describe(),
   public void describe() {
     int i = 1;
     System.out.println( "==========;;;
     System.out.println( "Player Name : " + name + " == " + "Score : " + score );
     System.out.println( "=========");
     for (Card card : hand) {
     System.out.println(i);
     card.describe();
     i++;
}
}
   public Card flip () {
     Card card = hand.remove(0);
     return card;
}
   public void draw (Deck deck) {
     Card card = deck.draw();
     hand.add(card);
}
   public void incrementScore () {
     score++;
}
   public void progression() {
     System.out.println( "Total Score >>> " +name + " : " + score );
```