```
Card computerCard; //this will store the current card held by the
Card selectedCard = null; //this will hold the value of the
ArrayList <String> history = new ArrayList<>();
ArrayList<Card> mainDeck = new ArrayList<>(); //this will be used
ArrayList<Card> userDeck = new ArrayList<Card>(); //ArrayList for
ArrayList<Card> computerDeck = new ArrayList<>(); //used for
    userDeck.add(mainDeck.get(0)); //THIS WILL ADD THE REMOVED CARD
```

```
System.out.println("===Round " + roundNumber + "!===");
            history.add(String.valueOf(roundNumber)); //adds round to game
               System.out.println((i + 1) + ". " + userDeck.get(i));
            computerDeck.add(mainDeck.get(0)); //adds card to computer deck
            computerCard = computerDeck.get(0); //stores value of first
            System.out.println(computerCard); //outputs computers card
            history.add(String.valueOf(computerCard)); //adds computers
            Scanner selectCard = new Scanner(System.in);
            while(o) {
                System.out.print("\nPlease select a card by typing a number
between 1 and 5: "); //MAY CHANGE THIS LINE
                selectedCardIndex = selectCard.nextInt(); //takes users
            System.out.print(selectedCard + "\n");
```

```
int computerSelectedRank;
            String[] selectedCardSplit = selectedCard.toString().split(" of
            String[] computerCardSplit = computerCard.toString().split(" of
             } else if (Objects.equals(selectedCardSplit[0], "Queen")){
             } else if (Objects.equals(selectedCardSplit[0], "Jack")){
             } else if(Objects.equals(selectedCardSplit[0], "Ace")) {
            if(Objects.equals(computerCardSplit[0], "King") ||
Objects.equals(computerCardSplit[0], "Queen") ||
Objects.equals(computerCardSplit[0], "Jack")){
                 computerSelectedRank = 10; //sets value to value of the
             } else if(Objects.equals(computerCardSplit[0], "Ace")) {
                 computerSelectedRank = 1; //sets value to value of card
                 computerSelectedRank =
Integer.parseInt(computerCardSplit[0]); //converts computer rank to an int
            if (userSelectedRank + computerSelectedRank == 11) { //if total
                 System.out.println("\nThat's 11!! You have gained one
                 score++; //add one to the score total
                 userDeck.remove(selectedCardIndex - 1); //removes used card
                computerDeck.remove(0); //removes computers card
                 System.out.println("\nYOU'RE SCORE IS: " + score + "\n");
```

```
System.out.println("\n");
               if((Objects.equals(uChoice, "y")) ||
                        System.out.println((i+1) + ". " + userDeck.get(i) +
                   while(p) {
                            if (!mainDeck.isEmpty()) { //checks is deck is
                               userDeck.add(mainDeck.get(0));
                               mainDeck.remove(0);
                                System.out.println("Invalid Input! Try
                if(!mainDeck.isEmpty()) { //checks is deck is empty before
                   userDeck.add(mainDeck.get(0)); //adds a new card from
                   mainDeck.remove(0); //removes collected card
            } else if ((userSelectedRank + computerSelectedRank != 11) &&
(!Objects.equals(selectedCardSplit[1], computerCardSplit[1]))){ //if total
                System.out.println("\nTHAT'S GAME OVER!");
               System.out.println("\nYour final total is = " + score +
               history.add(String.valueOf(score)); //adds score to history
[y/n]");
               Scanner seeHistory = new Scanner(System.in); //gets user
               String uInput = seeHistory.nextLine();
```

```
while (!history.isEmpty()){ //while history is not
                        System.out.println("\n===Round " + history.get(i) +
                        System.out.println("Your cards");
history.get(i)); //prints out the users deck
                            history.remove(i); //removes first value of
                        System.out.println("The computer had: " +
history.get(i));
                        history.remove(i); //removes first value of history
                        System.out.println("You played the: " +
history.get(i));
+ history.get(i));
                        System.out.print("\nPress [ENTER] to continue!");
                        Scanner endHistory = new Scanner(System.in); //when
                        String endHistoryInput = endHistory.nextLine();
                convScore = String.valueOf(score); //convert score to
                return currentScore; //return final score
            } else if (userSelectedRank + computerSelectedRank != 11) {
```

```
if (Objects.equals(selectedCardSplit[1],
computerCardSplit[1])){
                    System.out.println("\nYou matched the suits!! Play
                    System.out.println("\n YOU'RE SCORE IS: " + score +
                    history.add(String.valueOf(score)); //adds score to
                    userDeck.remove(selectedCardIndex - 1); //removes used
                    computerDeck.remove(0); //removes computers card
                    if (!mainDeck.isEmpty()) { //checks is deck is empty
                        userDeck.add(mainDeck.get(0)); //adds a new card
                        mainDeck.remove(0); //removes collected card
            if (mainDeck.isEmpty()) { //if the deck is empty, end game
                Scanner seeHistory = new Scanner(System.in); //gets user
                String uInput = seeHistory.nextLine();
                    while (!history.isEmpty()) { //while history is not
                        System.out.println("\n===Round " + history.get(i) +
                        System.out.println("Your cards");
history.get(i)); //prints out the users deck
                            history.remove(i); //removes first value of
                        System.out.println("The computer had: " +
history.get(i));
                        history.remove(i); //removes first value of history
```

```
System.out.println("You played the: " +
history.get(i));
                        System.out.println("The score for this round was "
+ history.get(i));
                        System.out.print("\nPress [ENTER] to continue!");
                        String endHistoryInput = endHistory.nextLine();
```