**URL to GitHub Repository:**

**URL to Public Link of your Video:**

**——————————————————————————————————————————**

**Instructions:**

1. Follow the **Coding Steps** below to complete this assignment.

* + - 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.
    - Create a new repository on GitHub for this week’s assignment and push your completed code to this dedicated repo.
    - Create a video showcasing your work:
      * In this video: record and present your project verbally while showing the results of the working project.
      * Easy way to Create a video: Start a meeting in Zoom, share your screen, open Eclipse with the code and your Console window, start recording & record yourself describing and running the program showing the results.
      * Your video should be a maximum of 5 minutes.
      * Upload your video with a public link.
      * Easy way to Create a Public Video Link: Upload your video recording to YouTube with a public link.

2. In addition, please include the following in your Coding Assignment Document:

* + - The URL for this week’s GitHub repository.
    - The URL of the public link of your video.

3. Save the Coding Assignment Document as a .pdf and do the following:

* + - Push the .pdf to the GitHub repo for this week.
    - Upload the .pdf to the LMS in your Coding Assignment Submission.

**——————————————————————————————————————————**

**Coding Steps — Java Final Project:**

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

1. Create the following classes:
   1. Card
      1. Fields
         1. **~~value~~** ~~(contains a value from 2-14 representing cards 2-Ace)~~
         2. **~~name~~** ~~(e.g. Ace of Diamonds, or Two of Hearts)~~
      2. Methods
         1. Getters and Setters
         2. **~~describe~~** ~~(prints out information about a card)~~
   2. Deck
      1. Fields
         1. **~~cards~~** ~~(List of Card)~~
      2. 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.~~
   3. Player
      1. Fields
         1. **~~hand~~** ~~(List of Card)~~
         2. **~~score~~** ~~(set to 0 in the constructor)~~
         3. **~~name~~**
      2. 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.
   1. ~~Instantiate a Deck and two Players, call the shuffle method on the deck.~~
   2. ~~Using a traditional for loop, iterate 52 times calling the Draw method on the other player each iteration using the Deck you instantiated.~~
   3. ~~Using a traditional for loop, iterate 26 times and call the flip method for each player.~~
   4. ~~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.~~
   5. ~~After the loop, compare the final score from each player.~~
   6. ~~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.~~
3. Tips: Printing out information throughout the game adds value including easier debugging as you progress and a better user experience.
   1. ~~Using the Card describe() method when each card is flipped illustrates the game play.~~
   2. ~~Printing the winner of each turn adds interest.~~
   3. ~~Printing the updated score after each turn shows game progression.~~
   4. ~~At the end of the game: print the final score of each player and the winner’s name or “Draw” if the result is a tie.~~