**War Card Game**

**Game Description:**

* A card game played using standard card deck (52 cards)
* Played by 2 players
* Shuffle the deck and distribute 26 cards to each player
* Both players reveal the top card at a time
* Player with the higher card takes both cards played
* Card rank: A K Q J 10 9 8 7 6 5 4 3 2 (irrespective of suits)
* It’s called “War” when there is a tie (both cards played are equal)
* In case of “War” both players keep 3 cards face-down and next card face-up
* Player with the higher card takes all 10 cards
* If the face-up cards are again equal, then war continues
* All the cards won will be added to the bottom of the deck
* The first player to win all cards wins

**Assumption:**

* The player who runs out of cards during war also loses the game.
* If the last card remaining with both players turns out to be equal, then its draw
* If any player has less than 3 cards when its war, then that player loses

what you might do differently if given more time

The objective of the programming assignment is to implement the card game ‘War’.  Since you have experience with Python, we prefer that you implement the assignment using Python.  If you are not familiar with the game, you can find a description of the gameplay here - [https://en.wikipedia.org/wiki/War\_(card\_game)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FWar_(card_game)&data=04%7C01%7Caxk1876%40mavs.uta.edu%7C296a50675a4f45f158fb08d9f24a9795%7C5cdc5b43d7be4caa8173729e3b0a62d9%7C1%7C0%7C637807224461919194%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=9L2jqXnOJpeT4NZeSaEVRlvr7Jze%2Fdp48o9n0LNWSiU%3D&reserved=0).   
  
We looking for the following as part of your submission:  
- Well structured, readable and tested code  
- Documentation including descriptions of your assumptions, corner cases, and what you might do differently if given more time  
- Submit your code via GitHub or other online RCS, preferably with several commits in the history