

Group: Purple

Group Member: Sharon Zhang, Breanna Bernardino

Commit ID: ef34866812a1d71b0a9c1198ddb6d153c02a4847

Purpose of each file in our repository:

- hearts.py: the game itself
- Project_proposal.md: our first project proposal
- Project_proposal_v2.md: final project proposal

How to run our program:

- Run "**python3 hearts.py**" will start the game

Instructions:

- The game will contains a welcome greeting to guide the player
 - You will be ask for to customize the max score if you want;
 - You will be ask how many player do you want to play with;
 - You will be ask to enter your name
- After the game start, the game will tells you who is the "leader" that can decide the leading suit and play the first card for this trick
- You will see your own cards on the screen, but not any others
- Play the card by enter:
 - Ranks (2-10, J, Q, K, A), follow by
 - Suits (H, S, C, D)
 - For example: QS as for "Queen of Spade"
- Then just follow the rules and enjoy the game!
- Game will calculate scores automatically for you, check the winner on the screen at the end of play round. Scores for each player will be shown on the screen at the end of each round.

Attribution:

| Method/function | Primary author | Techniques demonstrated |
|--------------------------------|--------------------|-------------------------|
| <code>__init__(Player)</code> | Sharon Zhang | |
| <code>receive_cards</code> | Breanna Bernardino | |
| <code>play_card(Player)</code> | Sharon Zhang | |
| <code>collect_trick</code> | Sharon Zhang | |
| <code>calculate_score</code> | Sharon Zhang | Conditional expression |

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|-------------------------------|-----------------------|--|
| reset | Sharon Zhang | |
| __str__() | Sharon Zhang | Magic methods other than __init__() |
| play_card(HumanPlayer) | Sharon Zhang | |
| Play_card (ComputerPlayer) | Breanna Bernardino | |
| __init__(Game) | Breanna Bernardino | |
| setup_players | Breanna Bernardino | |
| card_deck | Breanna Bernardino | |
| shuffle_and_deal | Sharon Zhang | |
| play_trick | Breanna Bernardino | F-string Key function with lambda |
| calculate_scores | Sharon Zhang | |
| play_round | Sharon Zhang | |
| play_game | Sharon Zhang | |