Group:

Xuduo Shao,

Jiawei Shi

All functions

1. Add\_Base\_Money\_Dearler\_Only()

For dealer or contract creator only, provide reward pool for the game.

Input value from account.

1. Draw\_Card()

Players and dealer both use to add point to their account.

1. End\_Game\_Dealer\_Only()

Only dealer account can use this function, this function use to end the contract.

1. End\_Your\_Bet()

This function is for player accounts, use to end the bet processes.

1. Join\_The\_Game()

Players function, use to join the game, and need provide the bet price from account value.

1. Pay\_Your\_deposite()

Players function, use to pay the deposit, need provide 10 ether.

1. PayPlayer()

After dealer end game, dealer have to use this function to reward the winners.

1. Dealer\_Point()

For all members to use, check dealer’s point.

1. Dealer\_Bet\_Rounds()

For all players to use, check dealer’s rounds.

1. Player\_Point\_NOT\_FOR\_DEALER()

For players to use, check the player’s point

1. Player\_Bet\_Rounds\_NOT\_FOR\_DEALER()

For players to use, check the player’s rounds

1. Show\_Deposite\_Amount()

For all members to use, check this game’s deposit amount.

Basic step.

1. Create contract.
   1. Input max players number in the deploy box and click deploy
2. Join the game
   1. use the account except dealer account click join\_the\_game with a value of bet price.
   2. Use pay\_your\_deposite button to add deposit.
   3. Click draw card function to obtain the point 5 rounds maximum.
   4. Click end your bet to stop betting and wait the result

Four requirements test steps.

1. Must be able to handle a variable amount of participants.

maxPlayer is the variable to control the max player number in the game. Every contract creater could set this number in the very beginning.

Test step:

1. Input a number in the “deploy” box and click deploy.
2. Dealer input a base reward number in the Value box and then click Add\_Base\_Money\_Dearler\_Only. Now the reward poll has this number of reward.
3. Switch account, and input deposit in value box and click Pay\_Your\_deposite.
4. Input another value in the value box, and then click join\_the\_game
5. Repeat c and d until the number of players is larger than max number.
6. The next account cannot use draw\_card function anymore since this player is the exceed player. His action will not count in the game.
7. Must have at least one payable function

Add\_Base\_Money\_Dearler\_Only and pay\_player are two payable function

After all account end betting, click end\_game function and then click playPlayer function the reward will delivery to the right places.

1. Must punish any dishonest participants in the contract
   1. If the player bet more than 5 rounds or click end\_your\_bet button but still click draw\_card function. Then this account will be setted as cheat
   2. This account will not have refund of deposit and other reward.
2. Must disallow new participants after the contract is over/finished (if your contract has a terminal state)
   1. When the players number already reach the max or the dealer end the contract by himself, then new player cannot join in the contract, the same principle as the first requirement.