def main():

"""This function runs the gamble app"""

# first step: ask player's name

# second: as player if he/she wants to reload credit

# third: play the game

# fourth: print the cards in player's hand and one card in dealer's hand

# fifth: ask if the player want to hit or stand

# sixth: reaveal the result and ask palyer continue or not

**class** Player(object):

"""This class clairfys the player class which saves the names of player and the dealer(computer)

"""

def \_\_init\_\_(self,name,credit): # set up player status

def show\_hand(self,name): # Shows the card value in hand: returns an int

def hit\_or\_stand(self): # Determine to hit or stand: returns a str

def current\_cards(self): # Display current card in hand: returns astr

**class** Hand(object):

"""This class defines drwaing the cards from the deck and put them back"""

def \_\_init\_\_(self): # empty list of cards

def draw\_from(self,deck): # draws card from the deck: list

def return\_to(self,deck): # put the card back to the deck after one round: list

@property

def value(self): # Stroes all the value logic

**class** Game(object):

"""This class stores the game procedure."""

def \_\_init\_\_(self,player,dealer,deck): #set up the initial

def play(self): # Runs the game

**class** Deck(object):

"""This class suffles the deck and draws one card from deck and put cards back"""

def \_\_init\_\_(self): # set up the deck

def shuffle(self): # Shuffles the deck to get random card

shuffle

def next\_card(self): # Draws the card from the deck, up to 5.

def return\_card(self): # receive the cards back

Feature: I am not planning store all the suit so that the result of cards will only be presented by numbers which makes the program much easier. If this decision makes my project disqualified, I am happy to add this feature. Another feature I wanted to add was displaying the winning probability to the player, however, it might take a lot lines of code, but again, I am happy to add these feature if it’s required. The dealer, which is the computer, won’t hit after reach 18, so that make the game more interesting.