Lab10

Blackjack

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1 .problem statement

In the previous lab, we created an object chip representing playing CARDS and a deck of CARDS.In this lab, we're going to use the objects that we built before.You and your partner will choose to create the solution in casino night lab to import your old code.It does not matter which one is used if both solutions satisfy the required specification.In a new file, a class will be created to store the game's 21 points and support functions.At the end of this lab, you will have a simple text demo of the game blackjack.

2.Planning

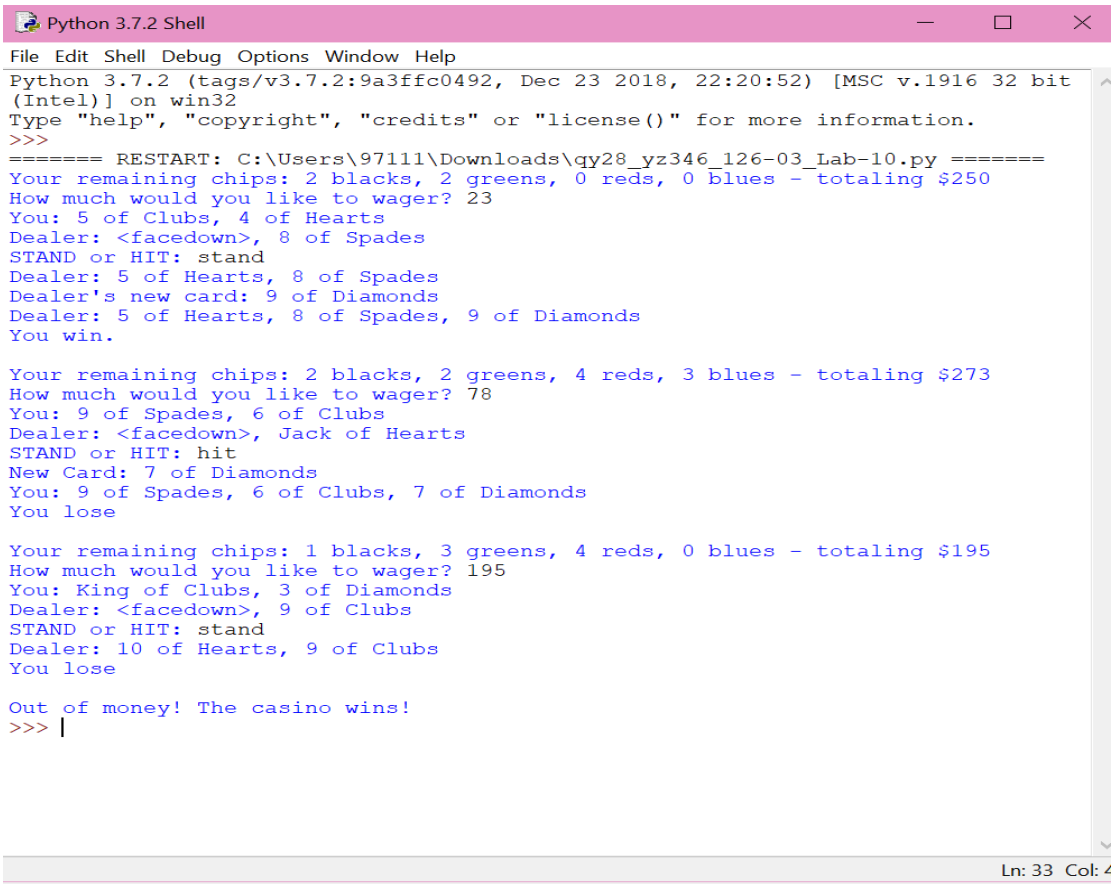
We must read through the rule of blackjack, step by step through the game of two hands.Be sure to be as detailed as possible.Record the shuffle time, draw, add to hand, where decisions are made, and what are the criteria for those decisions which is made by.

Then we need to design our function and know the value of return. First we will create a class for storing our hand in

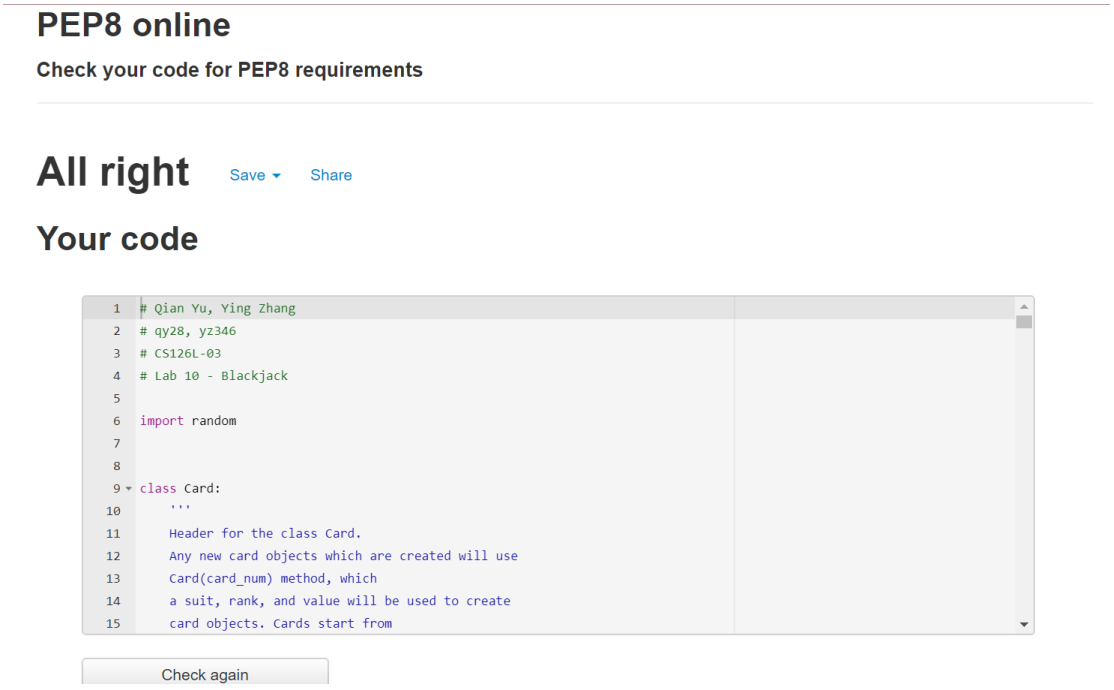
blackjack, so we can easily figure out how much our hand is worth, or display it to the screen. It includes __init__(), add_card(new_card), __str__() and get_value(). Second we create second class called Blackjack. The blackjack class is used to represent the blackjack game.This object can be thought of as a blackjack table, where there's a series of hand CARDS selected from one or more hands. It includes __init__(starting_dollars), draw(),start_hand(wager), hit(),stand(), end_hand(outcome) and game_active(). Finally, we need to use test code to check our code.

3. Apply the procedure

There are two choices "STAND or HIT: ". If choice == "STAND", it will be into blackjack. stand ( ). If choice == "HIT", it will be into blackjack. hit ( ). The outcome is like the following running.



There are PEP8 code online.



4. Reflection and Refactoring

Testing is necessary in the whole procedure. It can help us

know whether the whole procedure can run. Only passing the whole testing, we can more safely use it. Aside from testing, specific requirement is also important before we start to write a procedure. Sometimes we ignore value of return. It leads wrong statistics.