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CS 126 Lab Section

Lab 9 – Casino Night

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1. Problem Statement

In this lab, we will create a set of classes to model possible objects used in casinos. The first class is the Card class, which means a standard of playing card in 52 decks. The second is chip bank represents a collection of chips used for betting. Once we have these classes, they could be used in the future to make casino games easier. Card will have ability to be hidden, and information about the card will be easy to extract. ChipBank will save the balance for us and use the count to display the balance different chips.

2. Planning

We plan to design two big classes to complete this task. The first class is card and the second class is chipbank. Then we definite six functions in the first class and five functions in the second class. Every function is specific return value. According to the laboratory's requirement, we design specific return value. Finally, we need to test our code in

given codes.

3. Implementation and Testing

PEP8 online

Check your code for PEP8 requirements

All right

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Your code

```
1 import random
2
3
4 class Card:
5     def __init__(self, card_number):
6         self.card_number = card_number
7
8     def get_suit(self):
9         suits = ['Spades', 'Hearts', 'Clubs', 'Diamonds']
10        return suits[self.card_number % 4]
11
12    def get_rank(self):
13        ranks = ['Ace', '2', '3', '4', '5', '6', '7', '8',
14                '9', '10', 'Jack', 'Queen', 'King']
15        return ranks[self.card-num % 13]
```

Check again

Built by [Valentin Bryukhanov](#).

Designed with Twitter Bootstrap. Powered by [Flask](#).

Icons from Glyphicons Free.

Found a bug or have an idea?

[Send email](#).

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
<bound method Card.get_rank of <__main__.Card object at 0x0370B770>>of<bound met
hod Card.get_suit of <__main__.Card object at 0x0370B770>>
<bound method Card.get_rank of <__main__.Card object at 0x0370B790>>of<bound met
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hod Card.get_suit of <__main__.Card object at 0x0370B830>>
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10
Hearts
Queen
<facedown>
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hod Card.get_suit of <__main__.Card object at 0x0370B8D0>>
1blacks,1greens,4reds4blues - totalling $149
156
None
1blacks,2greens,1reds1blues - totalling $156
84
1blacks,2greens,1reds1blues - totalling $156
2blacks,3greens,0reds1blues - totalling $276
276
>>> |
```

4. Reflection and Refactoring

This laboratory is not difficult for us because the guide is very specific. We only need accord to the procedure of requirement and input return value. But we still have some problem about retract of code. We spend lots of time debugging code in PEP.