CSCI 161

Lab Assignment 7

Objective:

To work with classes.

Assignment:

Define a class named 'Account' with 5 attributes and initialize them as below

Key	value	data type
Name	<userInput>	(string)
Savings	100	(float)
checking	20	(float)
Card	10	(float)
Limit	50	(int)

1) Create a menu(), which will display the options as shown below:

   Option 1: Check Balance
   Option 2: Exit

   Option 1(Check Balance), should call a function check_balance().

2) The function, check_balance() should display the account owner's name, his Account Balance and Available Balance in exact format and alignment as below.

   Account owner's name: <Account.name>

	Account Balance	Available Balance
Savings	$ 100.00	$ 90.00
Checking	$ 20.00	$ 20.00
Card	$ 10.00	$ 40.00

   Note: The alignment must be the same

3) Data in the Account balance column is hardcoded; data in the available balance column should be computed dynamically. Rules to compute available balance of account:
   a) $10 minimum amount must be maintained in the savings account. Therefore, the available balance is the account balance plus minimum amount.
   b) Checking account can have any amount larger than or equal to 0
   c) Card available balance cannot exceed its limit, so the available balance is the difference between the limit and current card balance.
   d) If requirements aren't met, 'Available account' should be illustrated as 0, for all options

Tip

You can use string formatting in conjunction with tab for output alignment but using only tab will not be a good choice.

Sample output:

```
Hello, enter your name to start
Aydan
**********************************************
        1 Check balance
        2 Exit

Enter the number corresponding to your choice
1

********************************

        Account owner's name    Aydan
                        Account Balance    Available Balance
        Savings          $  1,000.00          $  1,010.00
        Checking         $     20.00          $     20.00
        Card             $    100.00          $    400.00

********************************

**********************************************
        1 Check balance
        2 Exit

Enter the number corresponding to your choice
```

Instructions:

- Preferred programming environment:
    - OS : Linux (Mint)
    - Interpreter : Python 3 (not Python 2)
    - Editor : gedit or editor of your choice
- The program is saved as a file with .py extension.
- The program should include a comment block at the top with your name, course number and course section, assignment number

  For example:
  # Your name
  # CSCI II 161 L01/L02
  # Assignment 6

- Upload your file as your ***lastname_firstname_assignmentnumber.py***

For example:

lastname_firstname_7.py