

**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	\$	110.00
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 (50\$), 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*