

420-LCU-05 Programming in Python - Assignment 4

Due May 15th, 2018

- 1- **Identification section:** This section must be either in a comment, with a '#' preceding each line, or enclosed within triple quotes ("""). The grader and I need this section for the accurate processing of your assignment. Assignments missing this may lose up to 5% of the mark.

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Your Name and ID

420-LCU Computer Programming, Section #

Thursday, May 03rd

S. Hilal, instructor

Assignment 4

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- 2- **Submission:** Submit your assignment in 1 .zip file, which will include your python file and MyAccounts.txt file. Be sure to respect other instructions specified in the assignment. An important part of an assignment is to correctly follow the instructions as closely as possible.
- 3- **Late assignments** are accepted up to 1 week from deadline. **But late penalty will be applied.**
- 4- **This assignment should be very short! You have all the pieces to make it work.**

Learning Objectives:

- Defining and using a simple class, class & instance attributes, and methods
- Using files as alternative to log information
- Managing a list of objects
- Use standard module to get date and time information.
- Using structured formatting to print information

Define an Account class that can be used to create (instantiate) different types of bank accounts: Chequing, saving, Investment, loan, etc.

Class Account (object):

Each account will have these attributes but you can define others if you need.

- 1- Account type
- 2- Bank Name
- 3- Balance

The Account class should implement the necessary methods to create, delete, and print an account (similar to Students class). In addition, you need to define methods:

- 1- Withdraw
- 2- Deposit

You are keeping information for 1 customer only. A customer can have multiple accounts, and should be able to keep track of all of his/her accounts. (Hint: you can create a list of accounts). The following operations are possible:

- 1- Create an account
- 2- Delete an account
- 3- Withdraw from an account
- 4- Deposit to an account
- 5- Display my accounts information: Bank Name, Account Type, balance.
- 6- Log my account information in a file. Include date and time.

For option 6: same to option 5 but store in a file. Always use the same file name (MyAccounts.txt). **Add** information at **end of** the file each time a request is made. For each log, display date and time on a separate line before the account information.