

LAB 12

SUBMISSION INSTRUCTIONS

Submit your GitHub repository link.

QUESTION

1. Create a **public** repository in GitHub named **lab**.
2. Create a new project to which you would clone your repository.
3. In your project, create a file named **account.py**. Inside this file, create a class named **Account** with the methods below.
 - a. **def __init__(self, name)**: This should be used to set the default values for each account object. It should contain 2 private variables (**account_name**, **account_balance**), that should hold the account name and a balance of 0 respectively. Example: `account_one = Account('001-John')` is an account object whose `account_name = 001-John` and `account_balance = 0`.
 - b. **def deposit(self, amount)**: This should increment the account balance by the specified amount. If the amount is a negative number or 0, nothing should happen to the account balance (since you cannot deposit a negative amount of money or \$0). Return the Boolean value **True** if the deposit transaction is successful and **False** if the transaction is unsuccessful (didn't change account balance).
 - c. **def withdraw(self, amount)**: This should decrement the account balance by the specified amount. If the amount is a negative number, 0, or more than the current account balance, nothing should happen to the account balance (since you cannot withdraw a negative amount, \$0, and you cannot withdraw more than your current account balance). Return the Boolean value **True** if the deposit transaction is successful and **False** if the transaction is unsuccessful (didn't change account balance).
 - d. **def get_balance(self)**: This should return the account balance.
 - e. **def get_name(self)**: This should return the account name.
4. When you are done writing the code for the **account.py** file, commit and push the file to your GitHub repository's main/master branch.
5. Create a new branch named **test** in your GitHub repository.
6. Add docstrings and type hinting to the methods in **account.py**.
7. Create a new python file in your local repository called **test_account.py**. Write unit tests for the **__init__**, **deposit**, and **withdraw** methods using **pytest** (Refer to slide 8 and 9 of the Testing notes or slide 7 of the Discussion notes under the Testing topic).
8. Commit and push the changes to your **test** branch (At this point the **test** branch should contain **account.py** and **test_account.py**).
9. Submit the link of your **public** remote repository.

Please note:

- Don't merge the 2 branches (we need to see that you were able to follow the instructions).
- Make sure any new changes to your code are pushed to the **test** branch.