README.md 2023-09-25

Programming Problem 7: OOP

The purpose of this assignment is to test your understanding and application of the concepts discussed up to **week 6**:

- implement object classes and develop program to use them
- test, debug and predict program behaviour

Specifications

In assignment7.py, BankAccount class

1. Complete the add_interest method to increase the balance by applying the annual interest

In assignment7.py, MAIN PROGRAM

- 2. Open account.txt to read
- 3. For each line in accounts.txt
 - o Split using the comma and strip the empty characters
 - Create a BankAccount object with the owner and balance in the line
 - o and add it in the BankAccounts list
- 4. Modify the annual interest (class variable) to 3%
- 5. Call the add interest method on all Bank Accounts
- 6. Calculate the sum of all balances in the list and print it

{% next %}

Execute and Test your program

Remember: in order to execute your code you type in the terminal:

python assignment7.py

The sum of all balances after the interest is applied should be 2346.0

Check Your Code

Execute the below to evaluate the correctness of your code using check50, but be sure to test it yourself before that... Login with your GitHub username and Personal Access Token when prompted. For security, you'll see asterisks (*) instead of the actual characters in your token.

README.md 2023-09-25

If you do not have generated a Personal Access ToKen follow the instructions: https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/creating-a-personal-access-token

```
check50 mkotsovoulou/ods6001a/main/assignments/assignment7
```

Execute the below to evaluate the style of your code using style50.

```
style50 assignment7.py
```

{% next %}

Submit your code

Execute the command below, logging in with your GitHub username and Personal Access Token when prompted. For security, you'll see asterisks (*) instead of the actual characters in your token.

```
submit50 mkotsovoulou/ods6001a/main/assignments/assignment7
```

You can re-submit your solution as many times as you want. When you are happy with your solution, download the code and upload it to Canvas.

```
EXPLORER
                                                                                                                        ⊳ ∨ style50 ∏ ···
                                             booleanExpressions.py ×
                                                1 #Assuming that variables have the following boolean values:
        15789464 [CODESPACES: SUPER GOLDFISH]
Ф
            lab42tags.py
                                                3 a = True
            lab51.py
                                                4 b = False
                                                5 c = a and not b
            mbox-short.txt
                                                6 #Enter the result of evaluating the expression:
            practice7_1.py
၀၀
            project_api.py
                                                8 print(a and (not c or b))
            results.txt
            ample1.txt
            sample2.txt
            sample3.txt
            sample4.txt
Д
            🖺 sample5.txt
            sample +v+
                       Open to the Side
                                                     Ctrl+Enter
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                       Open With...
         > 🗄 files
                       Open in Integrated Terminal
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            🖺 safe_i
                       Copy Path
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            safe_
```

README.md 2023-09-25

Done!

