

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
 - Split using the comma and strip the empty characters
 - Create a BankAccount object with the owner and balance in the line
 - 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.

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 mkotsoyoulou/ods6001a/main/assignments/assignment7
```

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

```
style50 assignment7.py
```

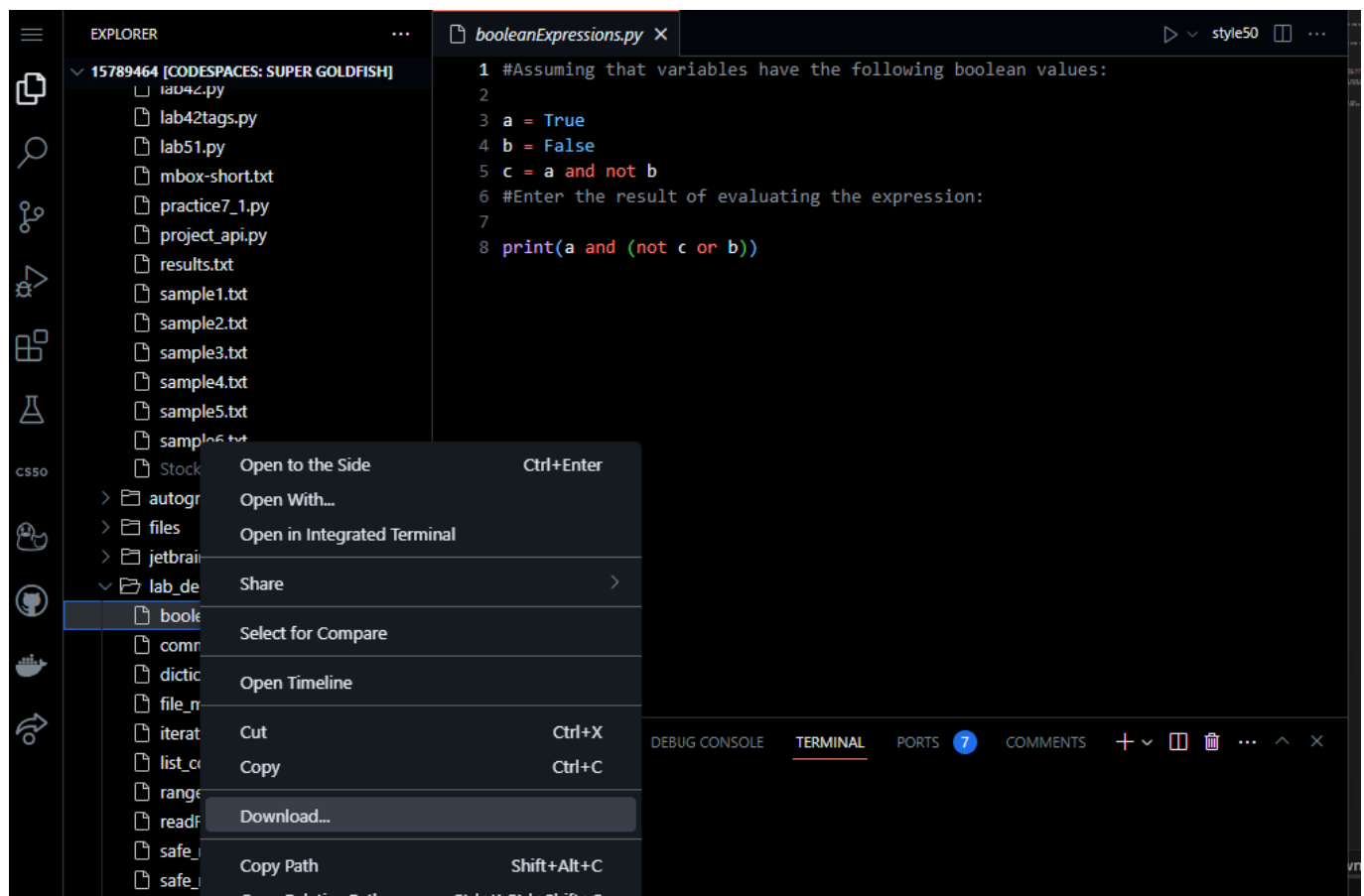
{% next %}

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 mkotsoyoulou/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.



Done!

