SIT771 Object Oriented Development

Credit Task 9.1: Another Language

Overview

In this task you will use what you have learnt about object oriented programming, and programming in general, to start exploring another programming language. In this case you will re-implement the basics of the Account class from the Pass Tasks using the Python programming language. The purpose of this task is to see that the concepts are all very similar, and a change is language is more about syntax than it is about anything else.

Submission Details

When you finish this task you need to upload all of your Python code in a single file along with a screenshot of it running.

Instructions

Use an online python tool (like https://repl.it/languages/python3) to implement the logic for the `Account` class from the pass tasks. The general model for which is shown below.

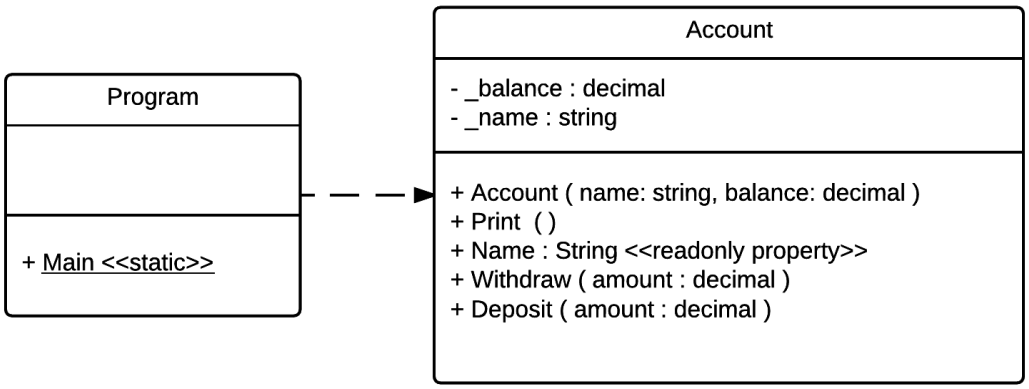

Figure: Account UML class diagram

Here is a good start:

```
class Account:

    def __init__(self, name, startingBalance):
        self.name = name
        self.balance = startingBalance

    def print_account (self):
        print("%s $%.2f" % (self.name, self.balance))


test = Account("Fred", 1000.0)
test.print_account()

another_account = Account("Jake", 10.0)
another_account.print_account()

line = input("Select an option: ")
num = int(line)

if num == 0:
  test.print_account()
```

Note that in python most things use `snake_case`, while classes use `PascalCase`.

Implement your Account class in Python, then add some code to test out your new class. Include a small menu for the user to choose to either print, deposit, or withdraw from your account. (No need to use an enumeration for this, just keep it simple)

The Learn Python Programming Definitive Guide is a good start for learning to program with Python.

Task Discussion

For this task you need to discuss how concepts are transferable between languages:

- What new things did you need to learn to pickup the new language?
- What things did you already know?