

Solution Review: Handling a Bank Account

This review provides a detailed analysis to solve the 'Handling a Bank Account' challenge.

We'll cover the following

- Solution
- Explanation
 - Methods in the Account Class
 - Methods in the SavingsAccount Class

Solution

```
1 class Account: # parent class
2     def __init__(self, title=None, balance=0):
3         self.title = title
4         self.balance = balance
5         # withdrawal method subtracts the amount from the balance
6
7     def withdrawal(self, amount):
8         self.balance = self.balance - amount
9         # deposit method adds the amount to the balance
10
11    def deposit(self, amount):
12        self.balance = self.balance + amount
13        # this method just returns the value of balance
14
15    def getBalance(self):
16        return self.balance
17
18
19 class SavingsAccount(Account):
20     def __init__(self, title=None, balance=0, interestRate=0):
21         super().__init__(title, balance)
22         self.interestRate = interestRate
23         # computes interest amount using the interest rate
24
25     def interestAmount(self):
26         return (self.balance * self.interestRate / 100)
27
28
29 obj1 = SavingsAccount("Steve", 5000, 10)
30 print("Initial Balance:", obj1.getBalance())
31 obj1.withdrawal(1000)
```



Explanation

In each of the two classes, the initializers have already been defined for you.

Methods in the Account Class

- In **line 7**, we have defined the `withdrawal(amount)` *method*. It takes a number, `amount` as an input parameter and subtracts it from the `balance`.
- In **line 11**, we have defined the `deposit(amount)` *method*. It takes a number, `amount`, as an input parameter and subtracts it to the `balance`.
- In **line 15**, we have defined the `getBalance()` *method* that returns the value of balance.

Methods in the SavingsAccount Class

- We have defined the `interestAmount()` *method* that returns the amount of interest depending on the value of the `interestRate` defined at the time of the creation of the object.