# Challenge 2: Handling a Bank Account

In this challenge, you will define methods for handling a bank account using concepts of inheritance.

# We'll cover the following Problem Statement Task 1 Task 2 Task 3 Task 4 Coding Exercise

# Problem Statement #

In this challenge, we will be extending the previous challenge and implementing methods in the *parent class* and its corresponding *child class*.

The initializers for both classes have been defined for you.

### Task 1#

In the Account class, implement getBalance() method that returns balance.

### Task 2

In the Account class, implement deposit(amount) method that adds amount to the balance. It does not return anything.

### **Sample Input**

```
balance = 2000
deposit(500)
getbalance()
```

### **Sample Output**

```
2500
```

# Task 3 #

In the Account class, implement withdrawal(amount) method that subtracts the amount from the balance. It does not return anything.

### **Sample Input**

```
balance = 2000
withdrawal(500)
getbalance()
```

### **Sample Output**

```
1500
```

### Task 4#

In the SavingsAccount class, implement a interestAmount() method that returns the interest amount of the current balance. Below is the formula for calculating the interest amount:

```
interest = interest rate x balance amount 100
```

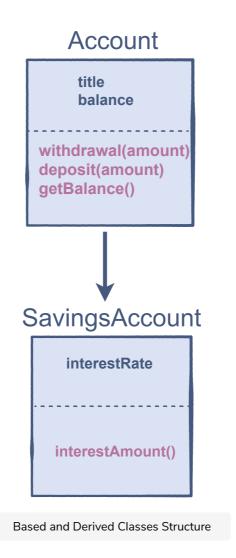
### **Sample Input**

```
balance = 2000
interestRate = 5
interestAmount()
```

## **Sample Output**

```
100
```

The following figure shows what the result should logically look like:



# Coding Exercise #

First, take a close look and design a step-by-step algorithm before jumping to the implementation. This problem is designed for your practice, so initially try to solve it on your own. If you get stuck, you can always refer to the solution provided in the solution review.

### Good luck!

**Note:** A new SavingsClass object is initialized at the end of the code and test results will base on it.

```
class Account:
    def __init__(self, title=None, balance=0):
        self.title = title
        self.balance = balance

def withdrawal(self, amount):
    # write code here
    pass
```

```
def deposit(self, amount):
        # write code here
        pass
   def getBalance(self):
        # write code here
        pass
class SavingsAccount(Account):
   def __init__(self, title=None, balance=0, interestRate=0):
        super().__init__(title, balance)
        self.interestRate = interestRate
   def interestAmount(self):
        # write code here
        pass
# code to test - do not edit this
demo1 = SavingsAccount("Mark", 2000, 5) # initializing a SavingsAccount object
```

The solution will be explained in the next lesson.