

## CSE 1030 :: Lab for Jan 15-19

In this lab, you will extend the BankAccount object that we saw in class. Code to define the BankAccount object is found at:

[http://www.cse.yorku.ca/course\\_archive/2006-07/W/1030/week1/BankAccount/](http://www.cse.yorku.ca/course_archive/2006-07/W/1030/week1/BankAccount/)

Modify the BankAccount class to implement the following features:

1. Add a new constructor to set an initial balance other than zero.
2. Add a feature to add interest to the balance at the end of every month. The default monthly interest rate should be 0.5%, but it should be possible to change this.
3. Add a feature to subtract the monthly fee from the account at the end of every month. The default monthly fee should be \$10, but it should be possible to change this. Also:
  - a) If the balance exceeds a certain amount when the fee is charged (default \$5000, but changeable), the fee is waived in that month.
  - b) If the total value of the deposits in a month exceeds the total value of the withdrawals by more than a certain amount (default \$200, but changeable), the fee is waived in that month.
4. There should be accessors for the value of the monthly fee, the interest rate, and the two threshold amounts for which the fee is waived.

Write a main method to test your new class over several months of operation. (Don't forget to implement a method to reset any month-dependent parameters.)

### Lab Reminders

1. To compile the Java class file myclass.java, type:  

```
javac -cp . myclass.java
```
2. To execute a compiled class file mymain.class containing a main method, type:  

```
java -cp . mymain
```
3. You can use any text editor you like to create a java file (for example, nano).