**Workshop 2**

### Assignment Information

1. Name

Workshop 2

1. Instructions

Due: 11:59 pm, May 29.

1. Reuse the Account class that you have developed and tested in Workshop 1.

2. Create a Java class called Bank. A Bank object has an array of accounts.

    Note: This class should be saved to a separate Java source file (Bank.java).

    - Code the default constructor and a constructor that takes two arguments,

       namely the name of a bank (string) and the maximum number of accounts (integer).

       The default constructor will initialize a bank object with "Seneca@York" and 0 as default values.

    - Code the equals and toString methods.

    - Code the addAccount method that adds an account to the bank. It retruns true if the account

       is added successfully. Otherwise it returns false. (What if the method receives a null reference?)

       It also returns false if the bank has the account opened already. (In other words, no duplicates are allowed.)

      - Code the removeAccount method that removes an account from the bank. The method has an account number

        (string) as the argument. The method returns the account that has been removed successfully. Otherweise it

        returns null if  the account does not exist or if the argument is a null reference.

        - Code the search method that searches for all accounts that have the same balance (double). It receives the balance

           as an argument. It returns an array of the accounts that it has found. It returns null if it cannot find any of those accounts

           (e.g. the account balance is negative). You may use the ArrayList class when you code the search mehtod.

3. Create a Java class called BankTester. You put all your testing code in the main method.

    NOTE: You can find one or two team members to create all the testing code. So all of you will use

                the same BankTester class. Please indicate clearly the authors of the testing code as comments.

Submission Requirements

1. Submit three Java source files (i.e. Account, Bank, BankTester) and a screenshot at Blackboard.

1. Due Date

Thursday, May 29, 2014 11:59:00 PM EDT

1. Points Possible

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