Below are two classes. One defines a bank account, the other creates accounts and tests the bank account class. Copy the two classes into BlueJ.

Complete the BankAccount class by adding the following methods:

- **constructors**

  a 1 parameter to construct bank account with a given balance and an interest rate of 0

  a 2 parameter to construct a bank account with both an initial balance and interest rate

- **void deposit(double x)** Adds a given amount of money to the account balance
- **void withdraw(double x)** Subtracts a given amount of money from the account balance
- **double getBalance()** Gets the current balance of the bank account
- **double closeAccount()** sets the balance to zero and returns the amount of money which was in the account before it closed.
- **void setInterestRate(double x)** takes a decimal value as a parameter and sets a variable called interestRate to the value input.
- **void addInterest()** adds interest at the current rate to the account balance
- **boolean equals(BankAccount other)** returns *true* if this account has the same balance as the other account else returns *false*

```
/**
 * >>>>>>>>>>>>>>>>>>>>> CLASS BankAccount <<<<<<<<<<<<<<<<<<<<
 * A bank account has a balance that can be changed by
 * deposits and withdrawals.
 */
public class BankAccount
{
   private double balance;
   private double interestRate;

// <<<<<<------ COMPLETE THE CODE ------>>>>>>
}
```

```java
/**
 * A class to test the BankAccount class.
 *
 * expected output:
 *   b1 balance = 909.0
 *   b2 balance = 500.0
 *   false
 *   b1 balance = 0.0
 *   b2 balance = 1409.0
 */
public class BankAccountTester {
   public static void main(String[] args)   {
      /**--- complete the tester below ---**/

      // create bankaccount b1 with a balance of $1000

      // deposit $500 into bank account b1

      // withdraw $600 from bank account b1

      // setInterestRate of b1 to 1% -or- 0.01 as a decimal

      // add interest to b1

      // print balance of b1

      // create a second bank account b2 with $500 and 1% interest rate

      // print balance of b2

      // print true if b1 and b2 have the same balance else print false

      // in one line of code do the following: close bank account b1,
      // and add the money from it into bank account b2

      // print balance of b1

      // print balance of b2
   }
}
```