```java
package Lab1;

/**
 * A new class called BankAccount to facilitate these banking methods
 * @author Kyle Leahy
 * @version 1.0
 */
public class BankAccount {

    private double balance; //Private primitive type to be
                            //used for arithmetic

    /**
     * Method calculates a deposit transaction based off 'balance'
     * @param amount
     */
    public void deposit(double amount) {
        balance = balance + amount;
    }

    /**
     * Method calculates a withdrawal transaction also using 'balance'
     * @param amount
     */
    public void withdrawal(double amount) {
        balance = balance - amount;
    }

    /**
     * Method retrieves the balance of the bank account in a 'getBalance
' method
     * @return Returns the balance of the bank account
     */
    public double getBalance() {
        return balance;
    }

    /**
     * Method calculates the interest of the given bank account
     * at a fixed value of 5% APY
     */
    private void calculateInterest() {
        balance = balance * 1.05; // <- 5% APY set value
    }

    /**
     * Main function creating 2 new BankAccount objects for Bob and Jane
     * As well depositing and withdrawing cash to ensure
     * after printing the balance, the methods work properly
     * @param args
```

```
50      */
51     public static void main(String args[]) {
52         BankAccount bobsAccount = new BankAccount();
53         BankAccount janesAccount = new BankAccount();
54 
55         bobsAccount.deposit(450.50);
56         janesAccount.deposit(1230.75);
57 
58         bobsAccount.withdrawal(230.00);
59         janesAccount.withdrawal(452.43);
60 
61         bobsAccount.deposit(412.23);
62         janesAccount.withdrawal(142.56);
63 
64         System.out.println("Bob's Account is currently: " + bobsAccount.
   getBalance());
65         System.out.println("Jane's Account is currently: " + janesAccount
   .getBalance());
66     }
67 }
68 
69 
```