|  |
| --- |
| public class Account |
|  | { |
|  | // instance data members |
|  | protected String FirstName, LastName; // two String members |
|  | protected double CurBalance; |
|  |  |
|  |  |
|  | // methods |
|  | public Account(String fname, String lname, double cb) |
|  | { |
|  | FirstName = fname; LastName = lname; CurBalance = cb; |
|  | } |
|  |  |
|  |  |
|  | public String getAcctType() |
|  | { |
|  | return this.getClass().getName(); // returns the string of the class name |
|  | } |
|  |  |
|  |  |
|  | public double DebitTransaction(double debitAmount) |
|  | { |
|  | // |
|  | // WRITE YOUR CODE |
|  | // |
|  | } |
|  |  |
|  |  |
|  | public double CreditTransaction(double creditAmount) |
|  | { |
|  | // |
|  | // WRITE YOUR CODE |
|  | // |
|  | } |
|  |  |
|  |  |
|  | public String toString() |
|  | { |
|  | return "Account name: " + FirstName + " " + LastName + ", Account Type: " + getAcctType() + ", Balance: " + String.format("$%.2f", CurBalance); |
|  | } |
|  |  |
|  |  |
|  | // Simple Unit Test |
|  | public static void main(String[] args) |
|  | { |
|  | Account ac1 = new Account("John", "Smith", 100); |
|  | System.out.println(ac1); |
|  |  |
|  |  |
|  | ac1.DebitTransaction(30.25); // should be $69.75 |
|  | System.out.println(ac1); |
|  |  |
|  |  |
|  | ac1.CreditTransaction(10.10); |
|  | System.out.println(ac1); // should be $79.85 |
|  | } |
|  |  |
|  |  |
|  | /\* Output of the unit test |
|  |  |
|  | Account name: John Smith, Account Type: Account, Balance: $100.00 |
|  | Account name: John Smith, Account Type: Account, Balance: $69.75 |
|  | Account name: John Smith, Account Type: Account, Balance: $79.85 |
|  | \*/ |
|  |  |
|  |  |
|  | } // end class |