```
package iusb.C201.bank.transaction;
import java.util.Scanner;
import iusb.C201.bank.analysis.transactionRecord;
import java.io.*;
import java.util.ArrayList;
import java.text.SimpleDateFormat;
import java.util.Date;
public class bankTransaction {
     private String accountDB;
     private String transactionDB;
     private ArrayList accounts;
     public bankTransaction(String accountDB, String transactionDB) {
           this.accountDB = accountDB;
            this.transactionDB = transactionDB;
           accounts = new ArrayList<account>();
     }
     public void loadDB() throws IOException {
            File file = new File(accountDB);
           Scanner inFile = new Scanner(file);
           while (inFile.hasNext()) {
                  int act = inFile.nextInt();
                  String fn = inFile.next();
                  String ln = inFile.next();
                  double balance = inFile.nextDouble();
                  account a = new account(act, fn, ln, balance);
                  accounts.add(a);
            inFile.close();
     }
     private account searchAccount(int actNum) {
            for (int i = 0; i < accounts.size(); i++) {
                  account a = (account) accounts.get(i);
                  if (a.getAccountNumber() == actNum)
                        return a;
           }
            return null;
     }
     public void deposit() throws IOException {
            Scanner input = new Scanner(System.in);
           System.out.print("Please enter the account Number: ");
           int act = input.nextInt();
           System.out.print("Please enter the amount: ");
            double amount = input.nextDouble();
           account a = searchAccount(act);
            if (a != null) {
                  a.deposit(amount);
```

```
Your code goes here Call method recordTransaction() to save
this transaction
                  recordTransaction(act, 'D', amount);
            } else
                  System.out.println("Account not found.");
      }
      public void withdraw() throws IOException {
            Scanner input = new Scanner(System.in);
            System.out.print("Please enter the account Number: ");
            int act = input.nextInt();
            System.out.print("Please enter the amount: ");
            double amount = input.nextDouble();
            account a = searchAccount(act);
            if (a != null) {
                  if (a.withdraw(amount) == true) {
                         * Your code goes here Call method recordTransaction() to
save this transaction
                         */
                        recordTransaction(act, 'W', amount);
                        System.out.println("no enough balance.");
            } else
                  System.out.println("Account not found.");
      }
      public void saveDB() throws IOException {
            FileWriter fw = new FileWriter(accountDB);
            for (int i = 0; i < accounts.size(); i++) {
                  account a = (account) accounts.get(i);
                  int act = a.getAccountNumber();
                  String fn = a.getFirstname();
                  String ln = a.getLastname();
                  double balance = a.getBalance();
                  fw.write(act + "\t" + fn + "\t" + ln + "\t" + balance + "\n");
            fw.close();
      }
      void recordTransaction(int actNum, char type, double amount) throws
IOException {
             * Your code goes here: 1. Open transaction record database
(transactionDB file)
             * 2. Write the transaction (account number, transaction type, amount
of money,
             * and current time) to file (database) as one line of record 3. Close
the file
             * stream (FileWriter)
            String currentTime = new
SimpleDateFormat("yyyy.MM.dd.HH.mm.ss").format(new Date());
```

```
File file = new File(transactionDB);
FileWriter fw = new FileWriter(file, true);

fw.write(actNum + "\t" + type + "\t" + amount + "\t" + currentTime + "\n");

fw.close();
}
```