```
ATM. java
package com.collabra.atm;
import java.io.IOException;
public class Atm extends ATMTransaction {
     public static void main(String[] args) throws IOException{
            ATMTransaction atmtrans = new ATMTransaction();
           atmtrans.getLogin();
     }
}
Account.java
package com.collabra.atm;
import java.text.DecimalFormat;
import java.util.Scanner;
public class Account
private double checkingBalance = 10000;
private double savingBalance = 10000;
private int customerNumber;
private int pinNumber;
Scanner input = new Scanner(System.in);
DecimalFormat moneyFormat = new DecimalFormat("'$' ###,##0.00");
public int setCustomerNumber(int customerNumber) {
this.customerNumber = customerNumber;
return customerNumber;
public int getCustomerNumber() {
     return customerNumber;
public int setPinNumber(int pinNumber) {
     this.pinNumber = pinNumber;
     return pinNumber;
public int getPinNumber() {
     return pinNumber;
```

}

```
public double getCheckingBalance() {
     return checkingBalance;
public double getSavingBalance() {
     return savingBalance;
public double calcCheckingWithdraw(double amount) {
     checkingBalance = (checkingBalance - amount);
     return checkingBalance;
}
public double calcSavingWithdraw(double amount) {
     savingBalance = (savingBalance - amount);
     return savingBalance;
public double calcCheckingDeposit(double amount) {
     checkingBalance = (checkingBalance + amount);
     return checkingBalance;
}
public double calcSavingDeposit(double amount) {
     savingBalance = (savingBalance + amount);
     return savingBalance;
}
public void getCheckingWithdrawInput() {
     System.out.println("Checking Account Balance:" +
moneyFormat.format(checkingBalance));
     System.out.println("Amount you want to withdraw from Checking
Account:");
     double amount = input.nextDouble();
     if ((checkingBalance - amount) >=0) {
           calcCheckingWithdraw(amount);
           System.out.println("New Checking Account Balance:" +
moneyFormat.format(checkingBalance));
     }
     else {
           System.out.println("Balance cannot be Negative." +"\n");
     }
}
public void getsavingWithdrawInput() {
     System.out.println("Saving Account Balance:" +
moneyFormat.format(savingBalance));
     System.out.println("Amount you want to withdraw from Saving
Account:");
     double amount = input.nextDouble();
```

```
if ((savingBalance - amount) >=0) {
           calcSavingWithdraw(amount);
           System.out.println("New Checking Account Balance:" +
moneyFormat.format(savingBalance));
     }
     else {
           System.out.println("Balance cannot be Negative." +"\n");
}
public void getCheckingDepositInput() {
     System.out.println("Checking Account Balance:" +
moneyFormat.format(checkingBalance));
     System.out.println("Amount you want to Deposite from Checking
Account:");
     double amount = input.nextDouble();
     if ((checkingBalance + amount) >=0) {
           calcCheckingDeposit(amount);
           System.out.println("New Checking Account Balance:" +
moneyFormat.format(checkingBalance));
     else {
           System.out.println("Balance cannot be Negative." +"\n");
     }
}
public void getSavingDepositInput() {
     System.out.println("Saving Account Balance:" +
moneyFormat.format(savingBalance));
     System.out.println("Amount you want to Deposite from Saving
Account:");
     double amount = input.nextDouble();
     if ((savingBalance + amount) >=0) {
           calcSavingDeposit(amount);
           System.out.println("New Saving Account Balance:" +
moneyFormat.format(savingBalance));
     else {
           System.out.println("Balance cannot be Negative." +"\n");
     }
}
```

ATMTransaction.java

```
} package com.collabra.atm;
import java.io.IOException;
import java.text.DecimalFormat;
import java.util.HashMap;
import java.util.Scanner;
public class ATMTransaction extends Account{
     Scanner menuInput = new Scanner(System.in);
           DecimalFormat moneyFormat = new
DecimalFormat("'$'###,##0.00");
           HashMap<Integer, Integer> data = new HashMap<Integer,</pre>
Integer>();
           public void getLogin() throws IOException {
                int x=1;
                do {
                      try {
                            data.put(8045264, 3456);
                            data.put(9876548, 7654);
                            System.out.println("Welcome to the ATM");
                            System.out.println("Enter Account Number");
                            setCustomerNumber(menuInput.nextInt());
                            System.out.println("Enter ATM Pin number");
                            setPinNumber(menuInput.nextInt());
                      }
                      catch (Exception e) {
                            System.out.println("\n" + "Invalid
characters. Only numbers" + "\n" );
                            x=2;
                      }
                      int cn =getCustomerNumber();
                      int pn = getPinNumber();
                      if (data.containsKey(cn) && data.get(cn) == pn) {
                            getAccountType();
                      } else
                            System.out.println("\n" + "Wrong Account
number or ATM pin number" + "\n");
                 } while (x==1);
           public void getAccountType() {
```

```
System.out.println("Select account you want to
access:");
                System.out.println("Type 1 - Checking Account");
                System.out.println("Type 2 - Saving Account");
                System.out.println("Type 3 - Exit");
                int selection = menuInput.nextInt();
                switch (selection) {
                case 1:
                      getChecking();
                      break;
                case 2:
                      getSaving();
                      break;
                case 3:
                      System.out.println("Thank you for using the ATM
\n'');
                      break;
                      default:
                           System.out.println("\n" + "Invalid Choice"
+ "\n");
                           getAccountType();
                }
                 public void getChecking() {
                       System.out.println("Checking Account: ");
                       System.out.println("Type 1 - View Balance");
                       System.out.println("Type 2 - Withdraw Amount");
                       System.out.println("Type 3 - Deposit Amount");
                       System.out.println("Type 4 - Exit");
                       System.out.println("Choice: ");
                       int selection1 = menuInput.nextInt();
                       switch (selection1) {
                       case 1:
                             System.out.println("Checking Account
Balance:" + moneyFormat.format(getCheckingBalance()));
                             getAccountType();
                             break;
                       case 2:
                             getCheckingWithdrawInput();
                             getAccountType();
```

```
break;
                       case 3:
                             getCheckingDepositInput();
                             getAccountType();
                             break;
                       case 4:
                             System.out.println("Thank you for using
ATM");
                             break;
                             default:
                             System.out.println("\n" + "Invalid Choice"
+ "\n");
                             getChecking();
                       }
                  }
                 public void getSaving() {
                       System.out.println("Saving Account: ");
                       System.out.println("Type 1 - View Balance");
                       System.out.println("Type 2 - Withdraw Amount");
                       System.out.println("Type 3 - Deposit Amount");
                       System.out.println("Type 4 - Exit");
                       System.out.println("Choice: ");
                       int selection2 = menuInput.nextInt();
                       switch (selection2) {
                       case 1:
                             System.out.println("Checking Account
Balance:" + moneyFormat.format(getSavingBalance()));
                             getAccountType();
                             break;
                       case 2:
                             getsavingWithdrawInput();
                             getAccountType();
                             break;
                       case 3:
                             getSavingDepositInput();
                             getAccountType();
                             break;
                       case 4:
                             System.out.println("Thank you for using
ATM");
                             break;
                       default:
```

```
System.out.println("\n" + "Invalid Choice"

getSaving();

}

}
```