view sourceprint?

```
001 import java.util.Scanner;
002
003 public class ATM {
004
005     private Transaction theTransaction = null;
006     private BankNetwork networkOfBanksOnATM = null;
007
008     // Used to get input from the customer
009
010     static Scanner userInput = new Scanner(System.in);
011
012     ATM(BankNetwork networkOfBanksOnATM){
013
014         this.networkOfBanksOnATM = networkOfBanksOnATM;
015
016     }
017
018     public boolean isStripReadable(Card theCard){
019
020         // Returns the number of digits in stripNumber
021
022         int numberOfDigitsInStrip = (int) (Math.log10(theCard.getStripNumber())+1);
023
024         theTransaction = new Transaction(theCard.getStripNumber());
025
026         if(numberOfDigitsInStrip == 10){
027
028             return true;
029
030         } else {
031
032             return false;
033         }
034
035     }
036
037     // Sends the card inserted to BankNetwork to see if there
038     // are any matching bankIDs
039
040     public boolean isATMCardsBankInNetwork(Card theCard){
041
```

```
042         if(networkOfBanksOnATM.isATMCardsBankInNetwork(theCard)){
043 
044             theTransaction.setStripNumber(theCard.getStripNumber());
045 
046             // Sets that the stripNumber has been verified so it is ok
047             // to access account info to verify pin later
048 
049             theTransaction.setDidTheCardVerify(true);
050 
051             return true;
052 
053         } else {
054 
055         return false;
056 
057         }
058 
059     }
060 
061     public boolean insertPIN(Card theCard, int pin){
062 
063         // Finds the number of digits in the PIN
064 
065         int numberOfDigitsInPIN = (int) (Math.log10(pin)+1);
066 
067         if(numberOfDigitsInPIN != 4){
068 
069             System.out.println("You have to enter 4 digits for a PIN");
070 
071             return false;
072 
073         } else {
074 
075             theTransaction.setPIN(pin);
076 
077 
078             // I decided to pass the transaction instead of the card
079             // like I did in the sequence diagram
080 
081             networkOfBanksOnATM.verifyThePIN(theTransaction);
082 
083         }
```

```
084
085         return false;
086
087     }
088
089     public void pickAcctToAccess(){
090
091         System.out.println("What Account do you Want to Withdrawal From ");
092         System.out.println("( 1 - Savings, 2 - Checking ) ");
093
094         if (userInput.hasNextInt()){
095
096             int numberEntered = userInput.nextInt();
097
098             theTransaction.setAcctToWithdrawalFrom(numberEntered);
099
100         } else {
101
102             System.out.println("You Entered an Invalid Option");
103
104         }
105
106     }
107
108     public void amountToWithdrawal(){
109
110         System.out.println("How much do you want to withdrawal ");
111         System.out.println("( Increments of 10 ) ");
112
113         if (userInput.hasNextInt()){
114
115             int numberEntered = userInput.nextInt();
116
117             theTransaction.setWithdrawalAmt(numberEntered);
118
119             networkOfBanksOnATM.requestWithdrawalAmt(theTransaction);
120
121         } else {
122
123             System.out.println("You Entered an Invalid Amount");
124
125         }
```

```
126
127     }
128
129     public void getTransactionInfo(){
130
131         System.out.println("Thank you " + theTransaction.getCustomerName() + " for using the XYZ
    Bank ATM\n");
132
133         System.out.println("Date / Time of Transaction: " + theTransaction.getCurrentDateTime());
134         System.out.println("\nTransaction");
135
136         System.out.print("Removed $" + theTransaction.getWithdrawalAmt() + " from your ");
137
138         if(theTransaction.getAcctToWithdrawalFrom() == 1){
139
140             System.out.println("Savings Account.\nYour current balance is " +
    theTransaction.getAcctBalance());
141
142         } else {
143
144             System.out.println("Checking Account.\nYour current balance is " +
    theTransaction.getAcctBalance());
145
146         }
147
148     }
149
150 }
```