```java
import java.util.*;
import java.util.Scanner;
class BankAccount {
    String name;
    String userName;
    String password;
    String accountNo;
    float balance = 1000000f;
    int transactions = 0;
    String transactionHistory = "";



    public void register() {
        Scanner sc = new Scanner(System.in);
        System.out.print("\nEnter Your Name: - ");
        this.name = sc.nextLine();
        System.out.print("\nEnter Your Username: - "
);
        this.userName = sc.nextLine();
        System.out.print("\nEnter Your Password :- "
);
        this.password = sc.nextLine();
        System.out.print("\nEnter Your Account Number
 :- ");
        this.accountNo = sc.nextLine();
        System.out.println("\nRegistration completed
..kindly login.....");
    }

    public boolean login() {
        boolean isLogin = false;
        Scanner sc = new Scanner(System.in);
        while ( !isLogin ) {
            System.out.print("\nEnter Your Username
: - ");
            String Username = sc.nextLine();
            if ( Username.equals(userName) ) {
                while ( !isLogin ) {
                    System.out.print("\nEnter Your
Password :- ");
```

```
36                      String Password = sc.nextLine();
37                      if ( Password.equals(password
   ) ) {
38                          System.out.print("\nLogin
   successful......");
39                          isLogin = true;
40                      }
41                      else {
42                          System.out.println("\n
   Incorrect Password..");
43                      }
44                  }
45              }
46              else {
47                  System.out.println("\nUsername not
   found");
48              }
49          }
50          return isLogin;
51      }
52
53      public void withdraw() {
54
55          System.out.print("\nEnter amount to withdraw
    :- ");
56          Scanner sc = new Scanner(System.in);
57          float amount = sc.nextFloat();
58          try {
59
60              if ( balance >= amount ) {
61                  transactions++;
62                  balance -= amount;
63                  System.out.println("\nWithdraw
   Successfully");
64                  String str = amount + " Rs Withdrawed
   \n";
65                  transactionHistory =
   transactionHistory.concat(str);
66
67              }
68              else {
```

```
 69                 System.out.println("\nInsufficient
    Balance");
 70             }
 71
 72         }
 73         catch ( Exception e) {
 74         }
 75     }
 76
 77     public void deposit() {
 78
 79         System.out.print("\nEnter amount to deposit
     :- ");
 80         Scanner sc = new Scanner(System.in);
 81         float amount = sc.nextFloat();
 82
 83         try {
 84             if ( amount <= 1000000f ) {
 85                 transactions++;
 86                 balance += amount;
 87                 System.out.println("\nSuccessfully
    Deposited");
 88                 String str = amount + " Rs deposited
    \n";
 89                 transactionHistory =
    transactionHistory.concat(str);
 90             }
 91             else {
 92                 System.out.println("\nSorry...Limit
    is 100000.00");
 93             }
 94
 95         }
 96         catch ( Exception e) {
 97         }
 98     }
 99
100     public void transfer() {
101
102         Scanner sc = new Scanner(System.in);
103         System.out.print("\nEnter Receipent's Name
```

```
103   - ");
104           String receipent = sc.nextLine();
105           System.out.print("\nEnter amount to transfer
      - ");
106           float amount = sc.nextFloat();
107
108           try {
109               if ( balance >= amount ) {
110                   if ( amount <= 50000f ) {
111                       transactions++;
112                       balance -= amount;
113                       System.out.println("\n
    Successfully Transfered to " + receipent);
114                       String str = amount + " Rs
    transfered to " + receipent + "\n";
115                       transactionHistory =
    transactionHistory.concat(str);
116                   }
117                   else {
118                       System.out.println("\nSorry...
    Limit is 50000.00");
119                   }
120               }
121               else {
122                   System.out.println("\nInsufficient
    Balance");
123               }
124           }
125           catch ( Exception e) {
126           }
127       }
128
129       public void checkBalance() {
130           System.out.println("\n" + balance + " Rs");
131       }
132
133       public void transHistory() {
134           if ( transactions == 0 ) {
135               System.out.println("\nEmpty");
136           }
137           else {
```

```
138             System.out.println("\n" +
    transactionHistory);
139         }
140     }
141 }
142
143
144 public class ATM {
145
146
147     public static int takeIntegerInput(int limit) {
148         int input = 0;
149         boolean flag = false;
150
151         while ( !flag ) {
152             try {
153                 Scanner sc = new Scanner(System.in);
154                 input = sc.nextInt();
155                 flag = true;
156
157                 if ( flag && input > limit || input
     < 1 ) {
158                     System.out.println("Choose the
    number between 1 to " + limit);
159                     flag = false;
160                 }
161             }
162             catch ( Exception e ) {
163                 System.out.println("Enter only
    integer value");
164                 flag = false;
165             }
166         };
167         return input;
168     }
169
170
171     public static void main(String[] args) {
172
173         System.out.println("\n         WELCOME TO
    SBI ATM SYSTEM         \n");
```

```
174         System.out.println("1.Register \n2.Exit");
175         System.out.print("Enter Your Choice - ");
176         int choice = takeIntegerInput(2);
177 
178         if ( choice == 1 ) {
179             BankAccount b = new BankAccount();
180             b.register();
181             while(true) {
182                 System.out.println("\n1.Login \n2.
    Exit");
183                 System.out.print("Enter Your Choice
     - ");
184                 int ch = takeIntegerInput(2);
185                 if ( ch == 1 ) {
186                     if (b.login()) {
187                         System.out.println("\n\n
    **********WELCOME BACK " + b.name + " **********\n"
    );
188                         boolean isFinished = false;
189                         while (!isFinished) {
190                             System.out.println("\n1.
    Withdraw \n2.Deposit \n3.Transfer \n4.Check Balance
    \n5.Transaction History \n6.Exit");
191                             System.out.print("\n
    Enter Your Choice - ");
192                             int c = takeIntegerInput
    (6);
193                             switch(c) {
194                                 case 1:
195                                     b.withdraw();
196                                     break;
197                                 case 2:
198                                     b.deposit();
199                                     break;
200                                 case 3:
201                                     b.transfer();
202                                     break;
203                                 case 4:
204                                     b.checkBalance
    ();
205                                     break;
```

```
206                                     case 5:
207                                         b.transHistory
    ();
208                                         break;
209                                     case 6:
210                                         isFinished =
    true;
211                                         break;
212                                 }
213                             }
214                         }
215                     }
216                     else {
217                         System.exit(0);
218                     }
219                 }
220             }
221             else {
222                 System.exit(0);
223             }
224
225
226
227     }
228 }
229
230
```