

```
package oasis;

import java.util.Scanner;

class BankAccount {

    String name;
    String userName;
    String password;
    String accountNo;
    float balance = 200000f;
    int transactions = 0;
    String transactionHistory = "";

    // BankAccount(String name, String userName, String password, String accountNo) {
    // this.name = name;
    // this.userName = userName;
    // this.password = password;
    // this.accountNo = accountNo;
    // }

    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("\n-----Registration completed..kindly login----");
    }
}
```

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}
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```
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 - ");  
                String Password = sc.nextLine();  
                if ( Password.equals(password) ) {  
                    System.out.print("\n-----Login successful!!-----");  
                    isLogin = true;  
                }  
                else {  
                    System.out.println("\nIncorrect Password");  
                }  
            }  
        }  
        else {  
            System.out.println("\nUsername not found");  
        }  
    }  
    return isLogin;  
}
```

```
public void withdraw() {  
  
    System.out.print("\nEnter amount to withdraw - ");
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Scanner sc = new Scanner(System.in);
float amount = sc.nextFloat();
try {

    if ( balance >= amount ) {

        transactions++;

        balance -= amount;

        System.out.println("\n-----Withdraw Successfully-----");

        String str = amount + " Rs Withdrawed\n";

        transactionHistory = transactionHistory.concat(str);

    }

    else {

        System.out.println("\nInsufficient Balance");

    }

}

catch ( Exception e) {

}

}

```

```

public void deposit() {

    System.out.print("\nEnter amount to deposit - ");

    Scanner sc = new Scanner(System.in);

    float amount = sc.nextFloat();

    try {

        if ( amount <= 100000f ) {

            transactions++;

            balance += amount;

        }

    }

}

```

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        System.out.println("\n----Successfully Deposited-----");
        String str = amount + " Rs deposited\n";
        transactionHistory = transactionHistory.concat(str);
    }
    else {
        System.out.println("\nSorry...Limit is 100000.00");
    }
}
catch ( Exception e) {
}
}

```

```

public void transfer() {

    Scanner sc = new Scanner(System.in);
    System.out.print("\nEnter Receipient's Name - ");
    String receipient = sc.nextLine();
    System.out.print("\nEnter amount to transfer - ");
    float amount = sc.nextFloat();

    try {
        if ( balance >= amount ) {
            if ( amount <= 50000f ) {
                transactions++;
                balance -= amount;
                System.out.println("\nSuccessfully Transferred to " +
receipient);

                String str = amount + " Rs transferred to " + receipient + "\n";
                transactionHistory = transactionHistory.concat(str);
            }
        }
    }
}

```

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        else {
            System.out.println("\nSorry...Limit is 50000.00");
        }
    }
    else {
        System.out.println("\nInsufficient Balance");
    }
}
catch ( Exception e) {
}
}

public void checkBalance() {
    System.out.println("\n" + balance + " Rs");
}

public void transHistory() {
    if ( transactions == 0 ) {
        System.out.println("\nEmpty");
    }
    else {
        System.out.println("\n" + transactionHistory);
    }
}
}
}

```

```

public class bank{

```

```

    public static int takeIntegerInput(int limit) {

```

```

int input = 0;
boolean flag = false;

while ( !flag ) {
    try {
        Scanner sc = new Scanner(System.in);
        input = sc.nextInt();
        flag = true;

        if ( flag && input > limit || input < 1 ) {
            System.out.println("Choose the number between 1 to " +
limit);

            flag = false;
        }
    }
    catch ( Exception e ) {
        System.out.println("Enter only integer value");
        flag = false;
    }
};
return input;
}

```

```

public static void main(String[] args) {

```

```

    System.out.println("\n*****WELCOME TO SBI ATM SYSTEM*****\n");
    System.out.println("1.Register \n2.Exit");
    System.out.print("Enter Your Choice - ");
    int choice = takeIntegerInput(2);

```

```

if ( choice == 1 ) {

    BankAccount b = new BankAccount();

    b.register();

    while(true) {

        System.out.println("\n1.Login \n2.Exit");

        System.out.print("Enter Your Choice - ");

        int ch = takeIntegerInput(2);

        if ( ch == 1 ) {

            if (b.login()) {

                System.out.println("\n\n*****WELCOME

BACK " + b.name + " *****\n");

                boolean isFinished = false;

                while (!isFinished) {

                    System.out.println("\n1.Withdraw

\n2.Deposit \n3.Transfer \n4.Check Balance \n5.Transaction History \n6.Exit");

                    System.out.print("\nEnter Your Choice - ");

                    int c = takeIntegerInput(6);

                    switch(c) {

                        case 1:

                            b.withdraw();

                            break;

                        case 2:

                            b.deposit();

                            break;

                        case 3:

                            b.transfer();

                            break;

                        case 4:

                            b.checkBalance();

                            break;

                        case 5:

                            b.transHistory();

```

```
break;
case 6:
    isFinished = true;
    break;
}
}
}
}
else {
    System.exit(0);
}
}
}
else {
    System.exit(0);
}
}
}
```