NAME :PALLAVI L M

CLASS : B.E

SECTION:B

SEMESTER:4th

SUBJECT:OOPJ

PROJECT NAME:SIMPLE BANK APPLICATIONS

CODE:

```
package BankApplicationx;

import java.io.BufferedReader;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.IOException;

import java.util.LinkedList;

import java.util.List;

import java.util.Scanner;

import java.lang.*;

import java.io.*;

import npancard.*;


class NewThread extends Thread{

/*Thread t;

NewThread(){

        t=new Thread(this,"demo");

        System.out.println("guj");*/
```

```
//}
	@Override
	public void run() {
		// TODO Auto-generated method stub

		System.out.println("WELCOME TO SBI BANK SERVICES");
		System.out.println("**************************************");

		//IMPLemnt_interface b = new IMPLemnt_interface();

		//b.timetable();
		//System.out.println("**************************************");

	}
}

class NewThread1 extends Thread{
	public void run() {
IMPLemnt_interface b = new IMPLemnt_interface();

		b.timetable();
		System.out.println("**************************************");

	}
}
```

```
public class ACCOUNTS {

	public static void main(String[] args) {

		NewThread t = new NewThread();
		t.start();
		NewThread1 e=new NewThread1();

		e.start();
		district w=new district(7889);

		w.dist();

		Scanner sc=new Scanner(System.in);
		int password;
		System.out.println("KINDLY ENTER YOUR USER MPIN");

		password=sc.nextInt();
		System.out.println(password);
		if(password==501)
		{

		System.out.println("enter name");
		String name=sc.next();
```

```
            System.out.println(name);
            System.out.println("customer name string length is "+name.length());

            System.out.println("enter id of the customer");
            int id=sc.nextInt();
            System.out.println(id);

            int sum,sub;
            bankaccounts abj1 = new bankaccounts(name,id);
            //pancard d =new pancard(customername,customerid,pannumber);
            //NewThread t = new NewThread();
w.statee();
            //t.start();

            abj1.showmenu();

            }
            else
            {
                  System.out.println("ACTION DENIED");
            }


}
```

```
}
class bankaccounts{
        String customername;
        int customerid;
        int previoustransaction;
        int balance;
        class zeroamountexep extends Exception{
                zeroamountexep(String msg){
                        System.out.println(msg);
                }
        }

bankaccounts()
        {
                System.out.println("hello");
        }
bankaccounts(String customername,int customerid)
{
this();
        this.customername=customername;
        this.customerid=customerid;
}
public synchronized int deposit(int amount) throws zeroamountexep
{
```

```
        if(amount!=0)
        {int sum=balance+amount;
                balance=balance+amount;
                previoustransaction=amount;
                System.out.println("deposited INR "+amount+" Available balance is "+sum);
        }
        else
        {
         throw new zeroamountexep("zero amount cannot be deposited");
        }
        return amount;
}
public synchronized void withdraw(int amount) throws zeroamountexep{
        if(amount!=0 && balance>=amount) {
                int sub=balance-amount;
                balance=balance-amount;
                previoustransaction=-amount;

                System.out.println("withdrawn INR "+amount +" Available balance is "+sub);
                }
        else
        {
                throw new zeroamountexep("zero amount And amount greater than balance cannot be
withdrawn");
        }
}
```

```
void gettransaction() {
	if(previoustransaction>0) {
		System.out.println("deposited INR "+previoustransaction);
	}
	else if(previoustransaction<0) {
		System.out.println("withdrawan INR "+Math.abs(previoustransaction));
	}
	else
	{
		System.out.println("NO TRANSACTION OCCURED");
	}
}

void showmenu()
{
	char option='\0';
	Scanner sc=new Scanner(System.in);
	System.out.println("****************************************");
	System.out.println("WELCOME "+customername);
	System.out.println("Your id is "+customerid);
		//pancard d =new pancard(customername,customerid,pannumber);

	System.out.println("choose any valid option from below");
	System.out.println("****************************************");
	System.out.println("1. CHECK BALANCE");
```

```
System.out.println("2. DEPOSIT");
System.out.println("3. PREVIOUS TRANSACTION");
System.out.println("4. WITHDRAW");
System.out.println("5. EXIT");

do
{
	System.out.println("enter en option");
	option=sc.next().charAt(0);
	System.out.println("\n");
	switch(option)
	{
	case '1':
		System.out.println("*********************************************");
		System.out.println("Your current balance is INR = "+balance);
		System.out.println("*********************************************");

		break;
	case '2':
		System.out.println("*********************************************");
		System.out.println("enter amount to be deposited");
		System.out.println("*********************************************");
		try {
			int amount=sc.nextInt();
			deposit(amount);
```

```
            } catch (Exception e) {
                        System.out.println(e);
            }
            break;
case '3':
            System.out.println("*********************************************");
            System.out.println("enter amount to be withdrawn");
            System.out.println("*********************************************");
            int amount2=sc.nextInt();
            try {
                        withdraw(amount2);
            } catch (zeroamountexep e) {
                        System.out.println(e);
                        //e.printStackTrace();
            }
            break;
case '4':
            System.out.println("*********************************************");
            gettransaction();



            System.out.println("*********************************************");
            System.out.println("\n");
            break;
            default:
```

```
                                        System.out.println("invalid option please enter again");
}
        }while(option!='5');


}
}
class state extends bankaccounts{
        int IFSC;
        state(int IFSC){
                System.out.println("IFSC CODE"+ "7889");


        }
        void statee() {


                System.out.println("THE BANK LOCATED IN KARNATAKA");
        }
}
class district extends state{


        district(int IFSC) {
                super(IFSC);


        }


        void dist() {
```

```
                System.out.println("THE BANK LOCATED IN MYSORE DISTRICT");

        }



}
```

```
package npancard;

public class IMPLemnt_interface implements TIMETABLE_INFACE{

        public static void main(String[] args) {


        }

        public Object timetable;

        @Override
        public void timetable() {
                System.out.println("here the bank working hours and time table");

                System.out.println("                                                ");
                System.out.println("************************************************");
                System.out.println("HAVE A GOOD DAY"+" START YOUR DAY WITH POSITIVE
THOGHTS");
                System.out.println("                                                ");
                System.out.println("************************************************");

                System.out.println("10:00 to 5:00"+ "from MONDAY TO SATURDAY");
                System.out.println("SECOND SATURDAY HOLIDAY");
                System.out.println("SUNDAY HOLIDAY");

        }

}
```

```
package npancard;

public interface TIMETABLE_INFACE {
  void timetable();}
```

output:

```
WELCOME TO SBI BANK SERVICES
************************************
here the bank working hours and time table

*****************************************
HAVE A GOOD DAY START YOUR DAY WITH POSITIVE THOGHTS

*****************************************
10:00 to 5:00from MONDAY TO SATURDAY
SECOND SATURDAY HOLIDAY
SUNDAY HOLIDAY
************************************
hello
IFSC CODE7889
THE BANK LOCATED IN MYSORE DISTRICT
KINDLY ENTER YOUR USER MPIN
501
501
enter name
pallavi
pallavi
customer name string length is 7
enter id of the customer
1234
1234
hello
THE BANK LOCATED IN KARNATAKA
************************************
WELCOME pallavi
Your id is 1234
choose any valid option from below
************************************
1. CHECK BALANCE
2. DEPOSIT
3. PREVIOUS TRANSACTION
4. WITHDRAW
5. EXIT
enter en option
1


*****************************************
Your current balance is INR = 0
*****************************************
enter en option
2


*****************************************
enter amount to be deposited
*****************************************
200
deposited INR 200 Available balance is 200
```

```
enter en option
1


*****************************************
Your current balance is INR = 200
*****************************************
enter en option
3


*****************************************
enter amount to be withdrawn
*****************************************
670
zero amount And amount greater than balance cannot be withdrawn
BankApplicationx.bankaccounts$zeroamountexep
enter en option
4


*****************************************
deposited INR 200
*****************************************


enter en option
3


*****************************************
enter amount to be withdrawn
*****************************************
100
withdrawn INR 100 Available balance is 100
enter en option
2


*****************************************
enter amount to be deposited
*****************************************
0
zero amount cannot be deposited
BankApplicationx.bankaccounts$zeroamountexep
enter en option
```