**package** com.service;

**interface** Bank

{

**void** withdraw(**int** accno,**int** amount);

**void** deposit(**int** accno,**int** amount);

**void** checkbalance(**int** accno);

}

**package** com.bean;

**public** **class** Account

{

**private** **int** accno;

**private** String name;

**private** **int** amount;

**public** Account(**int** accno, String name, **int** amount)

{

**this**.accno=accno;

**this**.name=name;

**this**.amount=amount;

}

**public** Account() {

**super**();

// **TODO** Auto-generated constructor stub

}

**public** **void** setname(String name)

{

**this**.name=name;

}

**public** **void** setaccno(**int** accno)

{

**this**.accno=accno;

}

**public** **void** setamount(**int** amount)

{

**this**.amount=amount;

}

**public** String getname()

{

**return** name;

}

**public** **int** getaccno()

{

**return** accno;

}

**public** **int** getamount()

{

**return** amount;

}

}

**package** com.service;

**import** java.util.Scanner;

**import** com.bean.Account;

**abstract** **class** AccountInitialization

{

**public** **static** **int** *account\_count*=0,*account\_count1*=0,*i*=0,*j*=0;

**public** **static** **int** *accno*=100;

**public** **static** **int** *accno1*=100;

**public** String name;

**public** **int** amount;

**public** Account accounts[]=**new** Account[10];

**public** **void** accountcreate()

{

**if**(*account\_count*<10)

{

name="Unknown";

amount=500;

accounts[*i*]=**new** Account(*accno*,name,amount);

*accno*++;

*i*++;

*account\_count*++;

}

**else**

{

*account\_count1*=1;

System.***out***.println("Account Limit exceed.");

}

}

**public** **void** accountcreate(String name,**int** amount)

{

**if**(*account\_count1*<10)

{

**if**(amount>500)

{

**this**.name=name;

**this**.amount=amount;

accounts[*j*].setaccno(**this**.*accno1*);

accounts[*j*].setname(**this**.name);

accounts[*j*].setamount(**this**.amount);

System.***out***.println("Name="+accounts[*j*].getname());

System.***out***.println("Account Number="+accounts[*j*].getaccno());

System.***out***.println("Amount="+accounts[*j*].getamount());

*account\_count1*++;

*accno1*++;

*j*++;

}

**else**

{

System.***out***.println("Amount should be greater than 500.");

}

}

**else**

{

System.***out***.println("Account Limit exceed.");

}

}

**abstract** **void** transfer(**int** from\_accno,**int** to\_accno,**int** amount);

}

**class** MyException **extends** Exception

{

MyException()

{

**super**();

}

MyException(String msg)

{

**super**(msg);

}

}

**package** com.service;

**import** com.bean.Account;

**public** **class** Mybank **extends** AccountInitialization **implements** Bank

{

**public** **void** transfer(**int** from\_accno, **int** to\_accno,**int** amount)

{

**if**(*account\_count*!=0)

{

**for**(*i*=0;*i*<10;*i*++)

{

**try**

{

**if**(accounts[*i*].getaccno()==from\_accno)

{

**for**(**int** j=0;j<10;j++)

{

**try**

{

**if**(accounts[j].getaccno()==to\_accno)

{

**if**(accounts[*i*].getamount()-amount>500)

{

accounts[*i*].setamount(accounts[*i*].getamount()-amount);

accounts[j].setamount(accounts[j].getamount()+amount);

**break**;

}

**else**

{

System.***out***.println("Minimum balance 500 should be maintained.");

}

}

**throw** **new** MyException("to account number not matched");

}

**catch**(MyException e)

{

System.***out***.println(e.toString());

**break**;

}

}

**break**;

}

**throw** **new** MyException("from account number not matched");

}

**catch**(MyException e){

System.***out***.println(e.toString());

**break**;

}

}

}

**else**

{

System.***out***.println("Account is not created. Create Your account first");

}

}

**public** **void** withdraw(**int** accno1,**int** amount1)

{

**if**(*account\_count*!=0)

{

**for**(**int** i=0;i<10;i++)

{

**try**

{

**if**(accounts[i].getaccno()==accno1)

{

**if**((accounts[i].getamount()-amount1)>500)

{

accounts[i].setamount(accounts[i].getamount()-amount1);

System.***out***.println("Amount withdrawn successfully");

**break**;

}

**else**

{

System.***out***.println("Minimum balance 500 should be maintained.");

}

}

**throw** **new** MyException("Account mismatch");

}

**catch**(MyException e){

System.***out***.println(e.toString());

**break**;

}

}

}

**else**

{

System.***out***.println("Account is not Created. Create your account first.");

}

}

**public** **void** deposit(**int** accno1, **int** amount1)

{

**if**(*account\_count*!=0)

{

**for**(**int** i=0;i<10;i++)

{

**try**

{

**if**(accounts[i].getaccno()==accno1)

{

**if**(amount1<50000)

{

accounts[i].setamount(accounts[1].getamount()+amount1);

System.***out***.println("Amount Deposited successfully.");

}

**else**

{

System.***out***.println("Amount is more than 50000. Pancard is compulsary.");

**break**;

}

}

**throw** **new** MyException("Account mismatch");

}

**catch**(MyException e){

System.***out***.println(e.toString());

**break**;

}

}

}

**else**

{

System.***out***.println("Account is not created. create your account first.");

}

}

**public** **void** checkbalance(**int** accno1)

{

**if**(*account\_count*!=0)

{

**for**(**int** i=0;i<10;i++)

{

**try**

{

**if**(accounts[i].getaccno()==accno1)

{

System.***out***.println("Available Balance:"+accounts[i].getamount());

**break**;

}

**throw** **new** MyException("Account mismatch");

}

**catch**(MyException e){

System.***out***.println(e.toString());

**break**;

}

}

}

**else**

{

System.***out***.println("Account is not Created. Create your account first.");

}

}

}

**import** com.service.Mybank;

**import** java.util.Scanner;

**class** BankTestApp

{

**public** **static** **void** main(String args[])

{

System.***out***.println("Welcome to Bank Application");

Scanner sc=**new** Scanner(System.***in***);

String name;

**boolean** flag=**true**;

**int** accno, toaccno,amount;

Mybank mb=**new** Mybank();

**do**

{

System.***out***.println("Enter your 1>Create Account\n 2> check Account Balance\n 3> withdraw the amount\n 4> Deposit\n 5> Transfer\n 6 > exit the Application: ");

**int** choose= sc.nextInt();

**switch**(choose)

{

**case** 1:

System.***out***.println("Select 1> Default details\n OR 2> for name and Amount pass:");

**int** ch=sc.nextInt();

**switch**(ch)

{

**case** 1: mb.accountcreate();

**break**;

**case** 2: System.***out***.println("Enter Name:");

name=sc.next();

System.***out***.println("Enter amount:");

amount=sc.nextInt();

mb.accountcreate(name,amount);

**break**;

**default**:

System.***out***.println("Invalied choice.");

}

**case** 2: System.***out***.println("For Check Balance");

System.***out***.println("Enter Account Number:");

accno=sc.nextInt();

mb.checkbalance(accno);

**break**;

**case** 3: System.***out***.println("Withdraw Money");

System.***out***.println("Enter Account Number:");

accno=sc.nextInt();

System.***out***.println("Enter Amount:");

amount=sc.nextInt();

mb.withdraw(accno,amount);

**break**;

**case** 4: System.***out***.println("Deposit Money");

System.***out***.println("Enter Account Number:");

accno=sc.nextInt();

System.***out***.println("Enter Amount:");

amount=sc.nextInt();

mb.deposit(accno,amount);

**break**;

**case** 5: System.***out***.println("Transfer Money");

System.***out***.println("Enter Your Account Number:");

accno=sc.nextInt();

System.***out***.println("Enter Account Number to be transfered:");

toaccno=sc.nextInt();

System.***out***.println("Enter Amount to be transfered:");

amount=sc.nextInt();

mb.transfer(accno,toaccno,amount);

**break**;

**case** 6: System.***out***.println("Thank you for using this bank");

flag=**false**;

**break**;

**default**:

System.***out***.println("invalied choice.");

}

}**while**(flag);

}

}