**package** com.cg.Project.bean;

**public** **class** Account {

**private** **long** accNo;

**private** **long** branchID;

**private** **double** balance;

**private** **long** pinCode;

**public** **long** getAccNo() {

**return** accNo;

}

**public** **void** setAccNo(**long** accNo) {

**this**.accNo = accNo;

}

**public** **long** getBranchID() {

**return** branchID;

}

**public** **void** setBranchID(**long** branchID) {

**this**.branchID = branchID;

}

**public** **double** getBalance() {

**return** balance;

}

**public** **void** setBalance(**double** balance) {

**this**.balance = balance;

}

**public** **long** getPinCode() {

**return** pinCode;

}

**public** **void** setPinCode(**long** pinCode) {

**this**.pinCode = pinCode;

}

}

package com.cg.Project.ui;

import com.cg.Project.dao.AccountDao;

import com.cg.Project.service.AccountService;

import com.cg.Project.bean.Account;

import java.util.Scanner;

public class AccountUI {

public static void main(String args[]) {

int ch;

long accNo;

long branchID;

double balance;

long pinCode;

Scanner sc = new Scanner(System.in);

int check = 0;

int again = 1;

Account obj = new Account();

AccountService obj1 = new AccountService();

while (again == 1) {

System.out.println("Enter 1 to add account details and 2 to view all accounts");

ch = sc.nextInt();

{

switch (ch) {

case 1: {

System.out.println("enter account no.");

obj.setAccNo(sc.nextLong());

check = obj1.VerifyAccNo(obj);

if (check == 1)

{

System.out.println("account number saved");

}

else {

while (check == 0) {

System.out.println("enter account no. again");

obj.setAccNo(sc.nextLong());

check = obj1.VerifyAccNo(obj);

}

if (check == 1)

System.out.println("account number saved");

}

System.out.println("enter Branch id.");

obj.setBranchID(sc.nextLong());

check = obj1.VerifyBranchID(obj);

if (check == 1)

System.out.println("branchID saved");

else {

while (check == 0) {

System.out.println("enter branch id again");

obj.setBranchID(sc.nextLong());

check = obj1.VerifyBranchID(obj);

}

if (check == 1)

System.out.println("branchID saved");

}

System.out.println("enter balance.");

check = obj1.VerifyBalance(obj);

if (check == 1)

System.out.println("balance saved");

else {

while (check == 0) {

System.out.println("enter balance.");

obj.setBalance(sc.nextDouble());

check = obj1.VerifyBalance(obj);

}

if (check == 1)

System.out.println("balance saved");

}

System.out.println("enter pin code");

obj.setPinCode(sc.nextLong());

check = obj1.VerifyPin(obj);

if (check == 1)

System.out.println("pincode saved");

else {

while (check == 0) {

System.out.println("enter pin code again");

obj.setPinCode(sc.nextLong());

check = obj1.VerifyPin(obj);

}

if (check == 1)

System.out.println("pincode saved");

}

boolean checkSaved = obj1.save(obj);

if (checkSaved == true)

System.out.println("Saved");

else

System.out.println("Not saved");

}

break;

case 2: {

AccountDao obj2=new AccountDao();

Account accPrint[] = new Account[5];

accPrint = obj1.returnObject();

if(null!=accPrint)

{

for (Account a : accPrint) {

System.out.println("Account no is " + a.getAccNo());

System.out.println("Branch ID is " + a.getBranchID());

System.out.println("Balance is " + a.getBalance());

System.out.println("Pin Code is " + a.getPinCode());

}

}

}

break;

default:

System.out.println("Wrong Input");

}

System.out.println("Want to choose again? 1 for yes 2 for no");

again = sc.nextInt();

}

}

sc.close();

}

}package com.cg.Project.service;

import com.cg.Project.bean.Account;

import com.cg.Project.dao.AccountDao;

public class AccountService {

Account array[] = new Account[5];

AccountDao accData = new AccountDao();

public int VerifyAccNo(Account acc) {

long pseudoAcc = acc.getAccNo();

int counter = 0;

int x;

while (pseudoAcc != 0) {

++counter;

pseudoAcc = pseudoAcc / 10;

}

if (counter != 8)

x = 0;

else

x = 1;

return x;

}

public int VerifyBranchID(Account acc) {

int counter = 0;

int x = 0;

long pseudoBranch = acc.getBranchID();

while (pseudoBranch != 0) {

++counter;

pseudoBranch = pseudoBranch / 10;

}

if (counter == 4 || counter == 5)

x = 1;

else

x = 0;

return x;

}

public int VerifyBalance(Account acc) {

int x = 0;

double pseudoBal = acc.getBalance();

if (pseudoBal > 0)

x = 1;

else

x = 0;

return x;

}

public int VerifyPin(Account acc) {

int counter = 0;

int x;

long pseudoPin = acc.getPinCode();

while (pseudoPin != 0) {

++counter;

pseudoPin = pseudoPin / 10;

}

if (counter == 5)

x = 1;

else

x = 0;

return x;

}

public boolean save(Account acc) {

boolean p=accData.save(acc);

return p;

}

public Account[] returnObject() {

array = accData.returnObject();

return array;

}}

**package** com.cg.Project.dao;

**import** com.cg.Project.bean.Account;

**public** **class** AccountDao {

**private** **static** Account *all*[] = **new** Account[5];

**int** n = 0;

**public** **boolean** save(Account acc) {

**if** (n <=5) {

*all*[n] = acc;

n++;

**return** **true**;

}

**else**

{

System.***out***.println("Number of users exceeded");

**return** **false**;

}

}

**public** Account[] returnObject() {

**return** *all*;

}

}