Package DemoBank;

Import java.util.\*;

Class Account{

Private String userName,accountType;

Private int pin;

Private double balance;

Public Account(String userName,int pin,String accountType){

This.userName=userName;

This.pin=pin;

This.balance=0;

This.accountType=accountType;

}

Public boolean auth(int inputPin) {

Return this.pin==inputPin;

}

Public String getaccType() {

Return this.accountType;

}

Public double getInterest() {

If(this.accountType.equalsIgnoreCase(“savings”)){

Return this.balance\*0.1;

}

Return this.balance\*0.15;

}

Public double getbalance() {

Return this.balance;

}

Public String userName() {

Return this.userName;

}

Public String deposit(double amount) {

If(amount<0) {

Return “Invalid amount”;

}

This.balance+=amount;

Return “Deposited successfully”;

}

Public String withdraw(double amount) {

If(amount<0) {

Return “Invalid amount”;

}

Else if(amount>this.balance) {

Return “Insufficient balance”;

}

This.balance-=amount;

Return “Withdrawed successfully”;

}

Public void getdetails() {

System.out.println(“ “);

System.out.println(“Username : “+this.userName);

System.out.println(“AccType : “+this.accountType);

System.out.println(“Balance : “+this.balance);

System.out.println(“Interest : “+getInterest());

}

}

Class Bank{

Private LinkedHashMap<String,Account> accounts=new LinkedHashMap<>();

Account user=null;

Public String createAccount(String userName,int pin,String accType) {

If(accounts.containsKey(userName)) {

Return “Account already exists!”;

}

Account a=new Account(userName,pin,accType);

Accounts.put(userName, a);

Return “Account added successfully!!”;

}

Public String login(String userName,int pin) {

If(!accounts.containsKey(userName)) {

Return “Account does not exist!”;

}

If(user!=null) {

Return “logout to Login Another Acc”;

}

If(accounts.get(userName).auth(pin)) {

User=accounts.get(userName);

Return “Logged In!”;

}

Return “Wrong Pin!”;

}

Public String logout() {

If(user!=null) {

User=null;

Return “logout successfully!”;

}

Return “Not logged in yet!”;

}

Public String Deposit(double amount)

{

If(user!=null) {

User.deposit(amount);

Return “Deposited”;

}

Return “Login to Deposit”;

}

Public String Withdraw(double amount)

{

If(user!=null) {

User.withdraw(amount);

Return “Withdrawn”;

}

Return “Login to Withdraw”;

}

Public String CheckBal()

{

If(user!=null) {

System.out.print(user.getbalance());

Return “ – Your Balance”;

}

Return “Login to Check Your Balance”;

}

}

Public class NewBank {

Public static void main(String[] args) {

// TODO Auto-generated method stub

Bank b=new Bank();

System.out.println(b.createAccount(“Ani”, 12345, “Current”));

System.out.println(b.createAccount(“Ani”, 1234, “Savings”));

System.out.println(b.login(“Ani”,12345));

System.out.println(b.logout());

System.out.println(b.Deposit(1500));

System.out.println(b.login(“Ani”,12345));

System.out.println(b.Deposit(1500));

System.out.println(b.CheckBal());

System.out.println(b.logout());

System.out.println(b.Withdraw(1500));

System.out.println(b.login(“Ani”,12345));

System.out.println(b.Withdraw(1500));

System.out.println(b.CheckBal());

}

}