**1)ATM DESIGN CODE-**

package atm1;

import java.util.Scanner;

public class abc {

public static void main(String[] args) {

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

System.*out*.println("Enter your 'Name' and 'CustomerId' to access your Bank account:");

String name=sc.nextLine();

String customerId=sc.nextLine();

BankAccount obj1=new BankAccount(name,customerId);

obj1.menu();

}

}

class BankAccount{

double bal;

double prevTrans;

String customerName;

String customerId;

BankAccount(String customerName,String customerId){

this.customerName=customerName;

this.customerId=customerId;

}

void deposit(double amount){

if(amount!=0){

bal+=amount;

prevTrans=amount;

}

}

void withdraw(double amt){

if(amt!=0 && bal>=amt){

bal-=amt;

prevTrans=-amt;

}

else if(bal<amt){

System.*out*.println("Bank balance insufficient");

}

}

void getPreviousTrans(){

if(prevTrans>0){

System.*out*.println("Deposited: "+prevTrans);

}

else if(prevTrans<0){

System.*out*.println("Withdrawn: "+Math.*abs*(prevTrans));

}

else{

System.*out*.println("No transaction occured");

}

}

void menu(){

char option;

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

System.*out*.println("Welcome "+customerName);

System.*out*.println("Your ID:"+customerId);

System.*out*.println("\n");

System.*out*.println("a) Check Balance");

System.*out*.println("b) Deposit Amount");

System.*out*.println("c) Withdraw Amount");

System.*out*.println("d) Previous Transaction");

System.*out*.println("e) Exit");

do{

System.*out*.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.*out*.println("Choose an option");

option=sc.next().charAt(0);

System.*out*.println("\n");

switch (option){

case 'a':

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

System.*out*.println("Balance ="+bal);

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

System.*out*.println("\n");

break;

case 'b':

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

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

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

double amt=sc.nextDouble();

deposit(amt);

System.*out*.println("\n");

break;

case 'c':

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

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

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

double amtW=sc.nextDouble();

withdraw(amtW);

System.*out*.println("\n");

break;

case 'd':

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

System.*out*.println("Previous Transaction:");

getPreviousTrans();

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

System.*out*.println("\n");

break;

case 'e':

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

break;

default:

System.*out*.println("Choose a correct option to proceed");

break;

}

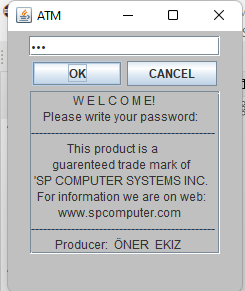
}while(option!='e');

System.*out*.println("Thank you for using our banking services");

}

}

**OUTPUT-**



**2)ATM code-**

package atm1;

import java.util.Scanner;

public class abc {

public static void main(String[] args) {

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

System.*out*.println("Enter your 'Name' and 'CustomerId' to access your Bank account:");

String name=sc.nextLine();

String customerId=sc.nextLine();

BankAccount obj1=new BankAccount(name,customerId);

obj1.menu();

}

}

class BankAccount{

double bal;

double prevTrans;

String customerName;

String customerId;

BankAccount(String customerName,String customerId){

this.customerName=customerName;

this.customerId=customerId;

}

void deposit(double amount){

if(amount!=0){

bal+=amount;

prevTrans=amount;

}

}

void withdraw(double amt){

if(amt!=0 && bal>=amt){

bal-=amt;

prevTrans=-amt;

}

else if(bal<amt){

System.*out*.println("Bank balance insufficient");

}

}

void getPreviousTrans(){

if(prevTrans>0){

System.*out*.println("Deposited: "+prevTrans);

}

else if(prevTrans<0){

System.*out*.println("Withdrawn: "+Math.*abs*(prevTrans));

}

else{

System.*out*.println("No transaction occured");

}

}

void menu(){

char option;

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

System.*out*.println("Welcome "+customerName);

System.*out*.println("Your ID:"+customerId);

System.*out*.println("\n");

System.*out*.println("a) Check Balance");

System.*out*.println("b) Deposit Amount");

System.*out*.println("c) Withdraw Amount");

System.*out*.println("d) Previous Transaction");

System.*out*.println("e) Exit");

do{

System.*out*.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.*out*.println("Choose an option");

option=sc.next().charAt(0);

System.*out*.println("\n");

switch (option){

case 'a':

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

System.*out*.println("Balance ="+bal);

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

System.*out*.println("\n");

break;

case 'b':

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

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

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

double amt=sc.nextDouble();

deposit(amt);

System.*out*.println("\n");

break;

case 'c':

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

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

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

double amtW=sc.nextDouble();

withdraw(amtW);

System.*out*.println("\n");

break;

case 'd':

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

System.*out*.println("Previous Transaction:");

getPreviousTrans();

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

System.*out*.println("\n");

break;

case 'e':

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

break;

default:

System.*out*.println("Choose a correct option to proceed");

break;

}

}while(option!='e');

System.*out*.println("Thank you for using our banking services");

}

}

**Output-**

Enter your 'Name' and 'CustomerId' to access your Bank account:

rijwana

Welcome

Your ID:rijwana

a) Check Balance

b) Deposit Amount

c) Withdraw Amount

d) Previous Transaction

e) Exit

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Choose an option

b

......................

Enter a amount to deposit :

......................

100

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Choose an option

c

......................

Enter a amount to Withdraw :

......................

10

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Choose an option

e

......................

Thank you for using our banking services