CORE JAVA PROJECT

PROJECT TITLE: ATM INTERFACE

AIM:

ATM program in Java to display ATM transactions.

LANGUAGES:

JAVA

SOFTWAREREQUIREMENT:

Eclipse for java.

SYNOPSIS:

In this ATM INTERFACE there are 5main operations are there. The Main Operations are;

1.CHECK AVAILABLE BALANCE

2.WITHDRAW AMOUNT

3.DEPOSIT AMOUNT

4.MINI STATEMENT

5.EXIT

- → Customer can perform that operation.
- \rightarrow Customer can perform that operation.
- → Customer can perform that operation.
- → Customer can perform that operation.
- → Customer can exit the current Option.

INITIAL SETUP:

(IN JAVA):

Project Name: ATM INTERFACE

Package Name: myproject.atm

Classes Name: 1.ATM

2.ATMOperations

3.ATMIplements

4.MainClass

ATMINTERFACE:

AtmMain and AtmOptions CODE:

***********ATM INTERFACE CORE JAVA PROJECT************

CSR CAPGEMINI TRAINING PROJECT EDUBRIDGE INDIA PRIVATE - LIMITED. PROJECT TITLE: ATM INTERFACE UNDER THE GUIDENCE OF TRAINER,

> MRS.INDRAKA MALLI DONE BY SIVARANJANI.S

```
In ATM INTERFACE:
MAIN OPERATIONS:

1. CHECK AVAILABLE BALANCE.
2.WITHDRAW AMOUNT.
3.DEPOSIT AMOUNT.
4.MINI STATEMENT.
5.EXIT.

package myproject.atm;
public class ATM {
    private double balance;
    private double depositAmount;
    private double withdrawAmount;

//default constructor
    public ATM() {
    }

//getter setter
```

```
public double getBalance() {
           return balance;
      }
     public void setBalance(double balance) {
           this.balance = balance;
      }
     public double getDepositAmount() {
           return depositAmount;
      }
     public void setDepositAmount(double depositAmount) {
           this.depositAmount = depositAmount;
      }
     public double getWithdrawAmount() {
           return withdrawAmount;
     public void setWithdrawAmount(double withdrawAmount) {
           this.withdrawAmount = withdrawAmount;
      }
}
CREATE A INTERFACE
package myproject.atm;
//create a interface
public interface ATMOperation{
     public void viewBalance();
     public void withdrawAmount(double withdrawAmount);
     public void depositAmount(double depositAmount);
     public void viewMiniStatement();
}
```

ATMMAINCLASS:

As in the above program, the ATM class is created which contains withdraw(), deposit() and printbalance() functions. The withdraw() function is used to perform the withdraw operation; this function accepts the balance and the withdrawn amount. Inside the withdraw() function, first check whether the balance is greater than the withdraw amount or not; when it is true, then update the balance by subtracting the withdraw amount from the balance. Next, the function deposit() is used to performs the deposit operation; this function accepts the balance and the deposit amount.

Inside the deposit() function, it updates the balance by adding the deposit amount to the balance. Next, the viewBalance() function is used to print the balance; it accepts the balance. Then, in the main function, a balance variable of an integer is created. Next, printing the selecting opitons for withdrawing, deposit, balance, and exit operations, depending on the specific option selection the case gets to execute, as we can see in the output.

- Withdraw: For withdrawing the funds, gets the withdrawal amount from the user, deduct it from the total balance, and display the message.
- **Deposit:** For depositing the funds, gets the deposit amount from the user to add, add it to the total balance, and display the message.
- Check the balance: For checking the balance, display the user's total balance.
- **Exit:** Return the user to the home page or initial screen by exiting the current Transaction mode.

```
package myproject.atm;
// Create a template
import java.util.Scanner;
public class MainClass
public static void main(String[] args)
     ATMOperationImpl op=new ATMOperationImpl();
     int atmnumber=637892;
     int atmpin=8668;
     //Get the input from user
     Scanner sc=new Scanner(System.in);
     System.out.println("***** WELCOME TO MY ATM MACHINE*****");
     System.out.println("Enter ATM Number : ");
     int Number=sc.nextInt();
     System.out.println("Enter ATM pin:");
     int Pin=sc.nextInt();
     //validate the user input same as the configure
     if((atmnumber==Number)&&(atmpin==Pin))
            while(true)
             System.out.println("----");
             System.out.println("1. View Available Balance\n2.Withdraw
Amount\n3.Deposit Amount\n4.View MiniStatement\n5.Exit");
             // ask the user enter the choice
             System.out.println("Enter Choice:");
             int ch=sc.nextInt();
             if(ch==1)
                   op.viewBalance();
                   break;
                 else if(ch==2)
```

```
System.out.println("Enter Amount Withdrawn");
                   double withdrawAmount=sc.nextDouble();
                   op.withdrawAmount(withdrawAmount);
                   //break;
                  else if(ch==3)
                  System.out.println("Enter Amount to Deposit: ");
                  double depositAmount=sc.nextDouble();
                  op.depositAmount(depositAmount);
                  else if(ch==4)
                  op.viewMiniStatement();
                  //break;
                  else if(ch==5)
                  System.out.println("Coollect your ATM card\n *****
Thankyou For using MyATM Machine *****");
                  System.exit(o);
                else {
                 System.out.println("Please enter valid Choice TryAgain");
     }
          else {
             System.out.println("Please enter valid ATM number");
             System.exit(o);
      }
}
```

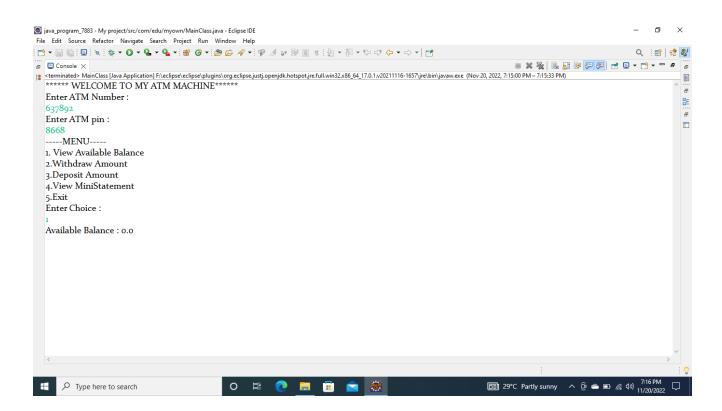
ATMIMPLEMENTS:

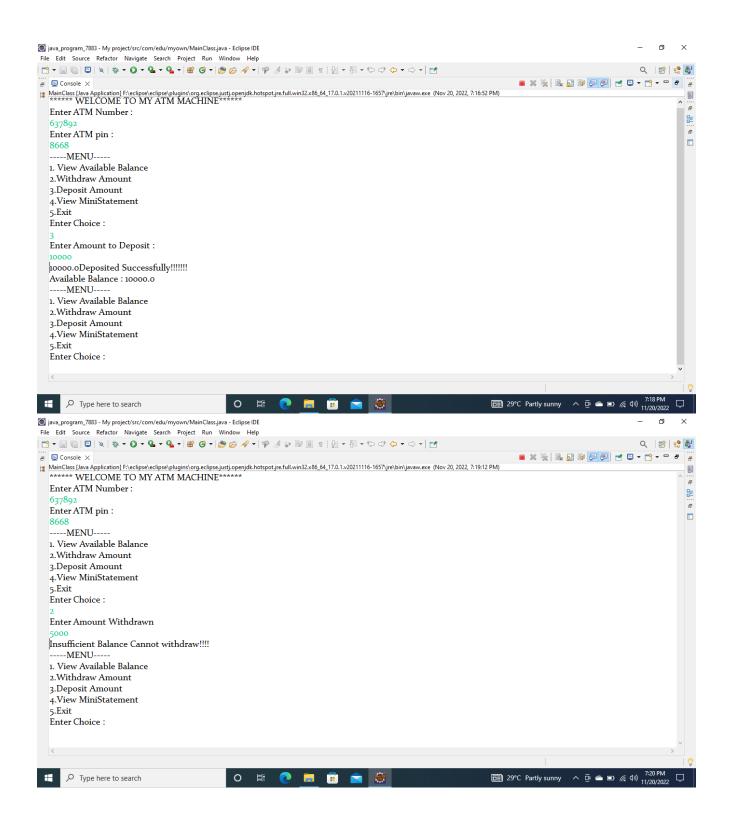
```
package myproject.atm;
import java.util.HashMap;
import java.util.Map;
public class AtmOperationImpl implements AtmOperationInterf{
        <u>ATM</u> atm=new <u>ATM();</u>
        Map<Double,String> ministmt=new HashMap<>();
        @Override
        public void viewBalance() {
          System.out.println("Available Balance is: "+atm.getBalance());
        }
        @Override
        public void withdrawAmount(double withdrawAmount) {
          if(withdrawAmount%500==0) {
             if (withdrawAmount <= atm.getBalance()) {
               ministmt.put(withdrawAmount, "Amount Withdrawn");
               System.out.println("Collect the Cash" + withdrawAmount);
               atm.setBalance(atm.getBalance() - withdrawAmount);
               viewBalance();
             } else {
               System.out.println("Insufficient Balance!!");
             }
          }
          else {
             System.out.println("Please enter the amount in multipal of 500");
          }
        }
        @Override
        public void depositAmount(double depositAmount) {
          ministmt.put(depositAmount," Amount Deposited");
```

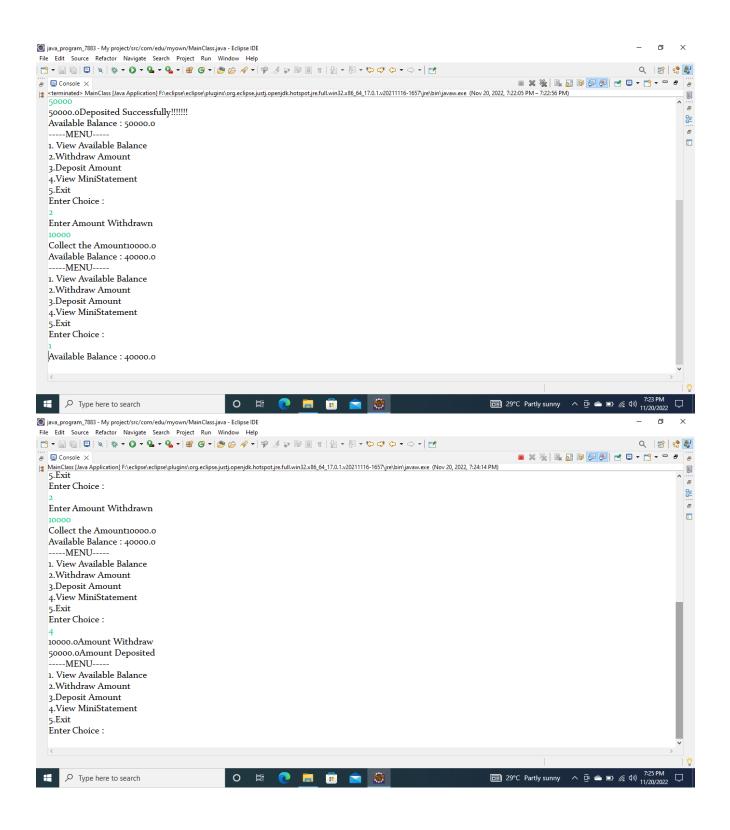
```
System.out.println(depositAmount+" Deposited Successfully !!");
atm.setBalance(atm.getBalance()+depositAmount);
viewBalance();
}

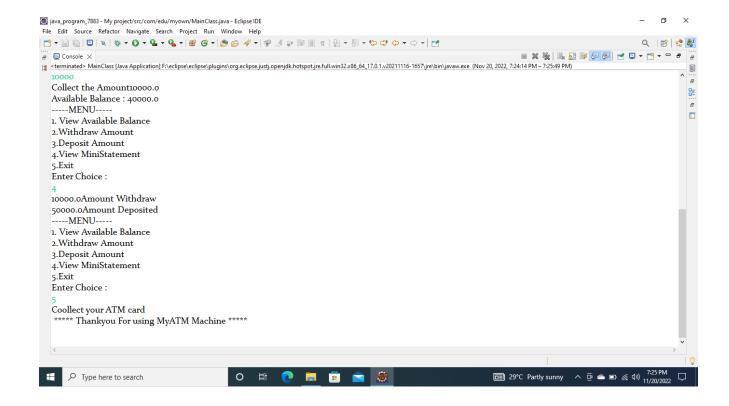
@Override
public void viewMiniStatement() {
for(Map.Entry<Double,String> m:ministmt.entrySet()){
System.out.println(m.getKey()+""+m.getValue());
}
}
```

CONSOLE OUPUT:









CONCLUSION:

ATM program in Java to display ATM transactions, and the user can withdraw money, deposit money, check the balance, and exit from the ATM.