

**JAVA AWT BASED- Online MOOC's year wise student database
management system - SQL CONNECTIVITY USING JDBC**

A

Report

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Requirements for the award of the Degree of*

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

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BONAFIDE CERTIFICATE

This is to certify that this project report titled “AUTOMATED FINGERPRINT BASED ATM(LINKING AADHARCARD)” is the bona fide mini project work of Mr. I.V. PRANAV KUMAR bearing hall ticket number 1602-18-737-116 under the guidance of B. Leelavathy during 4th semester B.E for the academic year 2019-2020.

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Automated Fingerprint based Atm.

AIM:

To create a Java GUI for ATM which is based on fingerprint by linking Aadhar card. We have created different tables related to banks, ATM, and Aadhar card. We a database of the tables where we perform update, delete and insert.

These values are to be updated in the database using JDBC connectivity.

Abstract:

The growth in electronic transactions has resulted in a greater demand for fast and accurate user identification and authentication. Access codes for buildings, banks accounts and computer systems often use personal identification numbers (PIN's) for identification and security clearances. Conventional method of identification based on possession of ID cards or exclusive knowledge like a social security number or a password are not all together reliable. An embedded fingerprint biometric authentication scheme for automated teller machine (ATM) banking systems is proposed in this paper. In this scheme, a fingerprint biometric technique is fused with the ATM for person authentication to ameliorate the security level.

Introduction:

REQUIREMENT ANALYSIS

List of tables:

- BANK
- AADHAR
- VERIFICATION DATA
- ATM
- TRANSACTIONS

List of attributes with their domain types:

BANK:

Bank Name: bname – Varchar2(20)

Name: username-varchar2(20)

Amount: amount-number(20)

Account Pin: accpin-number()

Account Id: accid- number()

AADHAR:

Aadhar number: anum-number()

Name: name-varchar2(20)

Gender: gender-varchar(10)

Address: address-varchar2(20)

Father name: fname-varchar2(20)

Verification Data:

FingerPrints: fingerprints-varchar()

Name:name-varchar2(20)

Fingertype:fingertype-varchar2(20)

ATM:

Bank Name:aname-varchar2(20)

Atm Card Number-acnum-number()

TRANSACTIONS:

Date: tdate-number()

Transaction Amount: transamount-number()

Time: time-number()

Account id: acid-number().

SOFTWARE USED:

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL*Plus.

Eclipse: It is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug in system for customizing the environment. The Eclipse software development kit (SDK), which include java development tools is meant for java developers.

SQL *plus: SQL *plus is a command line tool proprietary to oracle. You can send SQL Queries to the server using the tool. It can also help you format the result of query. SQL is the query language that is used to communicate with the oracle server to access and modify data.

Java AWT:

Java AWT (Abstract Window Toolkit) is an API to develop GUI or window-based

applications in java.

Java AWT components are platform-dependent i.e. components are displayed according

to the view of operating system. AWT is heavyweight i.e. its components are using the

resources of OS.

The java.awt package provides classes for AWT API such as TextField, Label, TextArea,

RadioButton, CheckBox, Choice, List etc.

Java Swing:

Java Swing is a part of Java Foundation Classes (JFC) which was designed for enabling large-scale enterprise development of Java applications. Java Swing is a set of APIs that provides graphical user interface (GUI) for Java programs. Java Swing is also known as Java GUI widget toolkit.

Java Swing or Swing was developed based on earlier APIs called Abstract Windows Toolkit (AWT). Swing provides richer and more sophisticated GUI components than AWT. The GUI components are ranging from a simple label to complex tree and table. Besides emulating look and feel of various platforms, Swing also provides *the pluggable look and feel* to allow look and feel of Java programs independent from the underlying platform.

SQL:

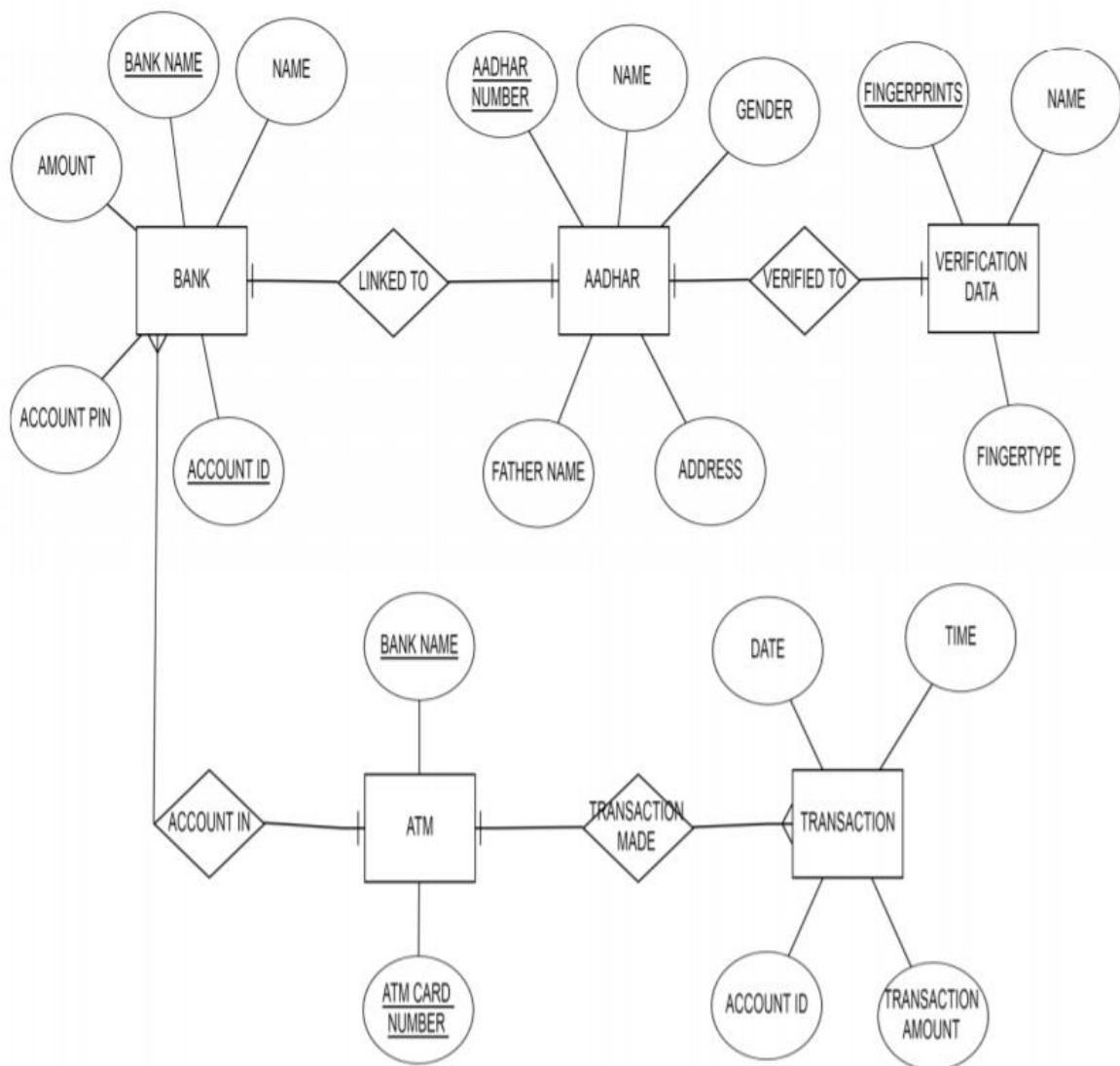
Structure Query Language(SQL) is a database query language used for storing and

managing data in Relational DBMS. SQL was the first commercial language introduced

for E.F Codd's Relational model of database. Today almost all RDBMS (MySQL , Oracle, Infomix , Sybase, MS Access) use SQL as the standard database query language. SQL is

used to perform all types of data operations in RDBMS.

ER DIAGRAM:



CREATION OF TABLE:

DDL AND DML COMMANDS :

```
SQL> CREATE TABLE BANK (BNAME NUMBER, USERNAME VARCHAR2(20), ACCID
```

```
NUMBER,ACCPIN NUMBER,AMOUNT NUMBER);
```

Table created.

```
SQL> DESC BANK
```

Name	Null?	Type
BNAME		NUMBER
USERNAME		VARCHAR2(20)
ACCID		NUMBER
ACCPIN		NUMBER
AMOUNT		NUMBER

```
SQL> ALTER TABLE BANK ADD(PRIMARY KEY(BNAME));
```

Table altered.

```
SQL> DESC BANK
```

Name	Null?	Type
BNAME	NOT NULL	NUMBER
USERNAME		VARCHAR2(20)
ACCID		NUMBER
ACCPIN		NUMBER
AMOUNT		NUMBER

```
SQL> ALTER TABLE BANK MODIFY(BNAME VARCHAR2(20));
```

Table altered.

```
SQL> DESC BANK
```

Name	Null?	Type
BNAME	NOT NULL	VARCHAR2(20)

USERNAME	VARCHAR2(20)
ACCID	NUMBER
ACCPIN	NUMBER
AMOUNT	NUMBER

SQL> DESC BANK

Name	Null?	Type

BNAME	NOT NULL	VARCHAR2(20)
USERNAME		VARCHAR2(20)
ACCID		NUMBER
ACCPIN		NUMBER
AMOUNT		NUMBER

SQL> INSERT INTO BANK

VALUES('&BNAME','&USERNAME',&ACCID,&ACCPIN,&AMOUNT);

Enter value for bname: SBI

Enter value for username: PRANAV

Enter value for accid: 1602116

Enter value for accpin: 116

Enter value for amount: 10000

old 1: INSERT INTO BANK

VALUES('&BNAME','&USERNAME',&ACCID,&ACCPIN,&AMOUNT)

new 1: INSERT INTO BANK VALUES('SBI','PRANAV',1602116,116,10000)

SQL> INSERT INTO BANK

VALUES('&BNAME','&USERNAME',&ACCID,&ACCPIN,&AMOUNT);

Enter value for bname: HDFC

Enter value for username: ABHI

Enter value for accid: 1602061

Enter value for accpin: 061

Enter value for amount: 20000

old 1: INSERT INTO BANK

VALUES('&BNAME','&USERNAME',&ACCID,&ACCPIN,&AMOUNT)

new 1: INSERT INTO BANK VALUES('HDFC','ABHI',1602061,061,20000)

1 row created.

```
SQL> /
Enter value for bname: ICIC
Enter value for username: BADRINATH
Enter value for accid: 1602066
Enter value for accpin: 066
Enter value for amount: 30000
old 1: INSERT INTO BANK
VALUES('&BNAME','&USERNAME','&ACCID','&ACCPIN','&AMOUNT')
new 1: INSERT INTO BANK VALUES('ICIC','BADRINATH',1602066,066,30000)
```

1 row created.

```
SQL> /
Enter value for bname: PNB
Enter value for username: YASHO
Enter value for accid: 1602120
Enter value for accpin: 120
Enter value for amount: 40000
old 1: INSERT INTO BANK
VALUES('&BNAME','&USERNAME','&ACCID','&ACCPIN','&AMOUNT')
new 1: INSERT INTO BANK VALUES('PNB','YASHO',1602120,120,40000)
```

1 row created.

```
SQL> INSERT INTO BANK
VALUES('&BNAME','&USERNAME','&ACCID','&ACCPIN','&AMOUNT');
Enter value for bname: SBI
Enter value for username: VARUN
Enter value for accid: 1602115
Enter value for accpin: 115
Enter value for amount: 12000
old 1: INSERT INTO BANK
VALUES('&BNAME','&USERNAME','&ACCID','&ACCPIN','&AMOUNT')
new 1: INSERT INTO BANK VALUES('SBI','VARUN',1602115,115,12000)
```

1 row created.

```
SQL> SELECT * FROM BANK;
```

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
SBI	PRANAV	1602116	116	10000
HDFC	ABHI	1602061	61	20000
ICIC	BADRINATH	1602066	66	30000
PNB	YASHO	1602120	120	40000
SBI	VARUN	1602115	115	12000

1 row created.

```
SQL> CREATE TABLE AADHARCARD(ANUM NUMBER PRIMARY KEY,NAME
VARCHAR2(20),GENDER VARCHAR(10),ADDRESS VARCHAR2(50),FNAME
VARCHAR2(20));
```

Table created.

```
SQL> INSERT INTO AADHARCARD
VALUES(&ANUM,&NAME,&GENDER,&ADDRESS,&FNAME');
Enter value for anum: 1861
Enter value for name: ABHI
Enter value for gender: M
Enter value for address: SUNCITY
Enter value for fname: SRINU
old 1: INSERT INTO AADHARCARD
VALUES(&ANUM,&NAME,&GENDER,&ADDRESS,&FNAME')
new 1: INSERT INTO AADHARCARD VALUES(1861,'ABHI','M','SUNCITY','SRINU')
```

1 row created.

```
SQL> /
Enter value for anum: 1866
Enter value for name: BADRINATH
Enter value for gender: M
Enter value for address: GAJWEL
Enter value for fname: VENU
```

```
old 1: INSERT INTO AADHARCARD
VALUES(&ANUM,&NAME,&GENDER,&ADDRESS,&FNAME')
new 1: INSERT INTO AADHARCARD
VALUES(1866,'BADRINATH','M','GAJWEL','VENU')
```

1 row created.

```
SQL> /
Enter value for anum: 18115
Enter value for name: VARUN
Enter value for gender: M
Enter value for address: JANGON
Enter value for fname: RAMU
old 1: INSERT INTO AADHARCARD
VALUES(&ANUM,&NAME,&GENDER,&ADDRESS,&FNAME')
new 1: INSERT INTO AADHARCARD
VALUES(18115,'VARUN','M','JANGON','RAMU')
```

1 row created.

```
SQL> /
Enter value for anum: 18116
Enter value for name: PRANAV
Enter value for gender: M
Enter value for address: AMEERPET
Enter value for fname: SRINIVAS
old 1: INSERT INTO AADHARCARD
VALUES(&ANUM,&NAME,&GENDER,&ADDRESS,&FNAME')
new 1: INSERT INTO AADHARCARD
VALUES(18116,'PRANAV','M','AMEERPET','SRINIVAS')
```

1 row created.

```
SQL> /
Enter value for anum: 118120
Enter value for name: YASHO
Enter value for gender: M
```

Enter value for address: NAMPALLY

Enter value for fname: RAMU

old 1: INSERT INTO AADHARCARD

VALUES(&ANUM,&NAME,&GENDER,&ADDRESS,&FNAME')

new 1: INSERT INTO AADHARCARD

VALUES(118120,'YASHO','M','NAMPALLY','RAMU')

1 row created.

SQL> SELECT * FROM AADHARCARD;

ANUM	NAME	GENDER	ADDRESS	FNAME
1861	ABHI	M	SUNCITY	SRINU
1866	BADRINATH	M	GAJWEL	VENU
18115	VARUN	M	JANGON	RAMU

ANUM	NAME	GENDER	ADDRESS	FNAME
18116	PRANAV	M	AMEERPET	SRINIVAS
118120	YASHO	M	NAMPALLY	RAMU

SQL> DESC VERIFICATIONDATA

Name	Null? Type
FINGERPRINT	NOT NULL VARCHAR2(20)
NAME	VARCHAR2(20)
FINGERTYPE	VARCHAR2(20)

```
SQL> INSERT INTO VERIFICATIONDATA
VALUES('&FINGERPRINT','&NAME','&FINGERTYPE');
Enter value for fingerprint: =
Enter value for name: PRANAV
Enter value for fingertype: INDEX
old 1: INSERT INTO VERIFICATIONDATA
VALUES('&FINGERPRINT','&NAME','&FINGERTYPE')
new 1: INSERT INTO VERIFICATIONDATA VALUES('=', 'PRANAV', 'INDEX')
```

1 row created.

```
SQL> /
Enter value for fingerprint: )
Enter value for name: ABHI
Enter value for fingertype: INDEX
old 1: INSERT INTO VERIFICATIONDATA
VALUES('&FINGERPRINT','&NAME','&FINGERTYPE')
new 1: INSERT INTO VERIFICATIONDATA VALUES(')', 'ABHI', 'INDEX')
```

1 row created.

```
SQL> /
Enter value for fingerprint: @
Enter value for name: BADRINATH
Enter value for fingertype: THUMB
old 1: INSERT INTO VERIFICATIONDATA
VALUES('&FINGERPRINT','&NAME','&FINGERTYPE')
new 1: INSERT INTO VERIFICATIONDATA VALUES('@', 'BADRINATH', 'THUMB')
```

1 row created.

```
SQL> /
Enter value for fingerprint: ?
Enter value for name: YASHO
Enter value for fingertype: RING FINGER
old 1: INSERT INTO VERIFICATIONDATA
VALUES('&FINGERPRINT','&NAME','&FINGERTYPE')
new 1: INSERT INTO VERIFICATIONDATA VALUES('?', 'YASHO', 'RING FINGER')

1 row created.
```

```
SQL> /
Enter value for fingerprint: >
Enter value for name: YASHO
Enter value for fingertype: THUMB
old 1: INSERT INTO VERIFICATIONDATA
VALUES('&FINGERPRINT','&NAME','&FINGERTYPE')
new 1: INSERT INTO VERIFICATIONDATA VALUES('>', 'YASHO', 'THUMB')

1 row created.
```

```
SQL> SELECT * FROM VERIFICATIONDATA;
```

FINGERPRINT	NAME	FINGERTYPE
=	PRANAV	INDEX
)	ABHI	INDEX
@	BADRINATH	THUMB
?	YASHO	RING FINGER
>	YASHO	THUMB

```
SQL> ALTER TABLE ATM DROP(AMOUNT);
```

Table altered.

```
SQL> INSERT INTO ATM VALUES('&ANAME', &ACNUM);
Enter value for aname: SBI
```

Entervalue for acnum: 116
old 1:INSERTINTOATMVALUES('&ANAME',&ACNUM)
new 1:INSERTINTOATMVALUES('SBI',116)

1 row created.

SQL> /
Enter value for aname: HDFC
Enter value for acnum:61
old 1:INSERTINTOATMVALUES('&ANAME',&ACNUM)
new 1:INSERTINTOATMVALUES('HDFC',61)

1 row created.

SQL> /
Enter value for aname: ICIC
Enter value for acnum:66
old 1:INSERTINTOATMVALUES('&ANAME',&ACNUM)
new 1:INSERTINTOATMVALUES('ICIC',66)

1 row created.

SQL> /
Enter value for aname: PNB
Entervalue for acnum: 120
old 1:INSERTINTOATMVALUES('&ANAME',&ACNUM)
new 1:INSERTINTOATMVALUES('PNB',120)

1 row created.

SQL> /
Enter value for aname: SBH
Enter value for acnum: 115
old 1:INSERTINTOATMVALUES('&ANAME',&ACNUM)
new 1:INSERTINTOATMVALUES('SBH',115)

1 row created.

SQL> SELECT * FROM ATM;

ANAME	ACNUM
-------	-------

SBI	116
-----	-----

HDFC	61
------	----

ICIC	66
------	----

PNB	120
-----	-----

SBH	115
-----	-----

SQL> UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=12;

Enter value for accid: 1602116

old 1: UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=12

new 1: UPDATE TRANSACTION SET ACCID=1602116 WHERE TIME=12

1 row updated.

SQL> /

Enter value for accid:

old 1: UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=12

new 1: UPDATE TRANSACTION SET ACCID= WHERE TIME=12

UPDATE TRANSACTION SET ACCID= WHERE TIME=12

*

ERROR at line 1:

ORA-00936: missing expression

SQL> UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=13;

Enter value for accid: 1602115

old 1: UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=13

new 1: UPDATE TRANSACTION SET ACCID=1602115 WHERE TIME=13

1 row updated.

SQL> UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=14;

Enter value for accid: 1602061

old 1: UPDATE TRANSACTION SET ACCID=&ACCID WHERE TIME=14

new 1: UPDATE TRANSACTION SET ACCID=1602061 WHERE TIME=14

1 row updated.

SQL> SELECT * FROM TRANSACTION;

TDATE	TIME	TRANSAMONUT	ACCID
23012000	12	10000	1602116
24012000	13	10000	1602115
25012000	14	200000	1602061

Java-SQL Connectivity using JDBC:

Java Database Connectivity (JDBC) is an application programming interface (API) for

the programming language Java, which defines how a client may access a database. It is a

Java-based data access technology used for Java database connectivity. It is part of

the Java Standard Edition platform, from Oracle Corporation. It provides methods to

query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API)

as:

```
private void connToDb()
```

```
{
```

```

try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");

    connection=DriverManger.getConnection("jdbc:oracle:thin:@localhost:1522:xe",
"pranav","pranav23");

    statement=connection.createStatement();
}
catch(SQLException connectException)
{
    System.out.println(connectException.getMessage());
    System.out.println(connectException.getSQLState());
    System.out.println(connectException.getErrorCode());
    System.exit(1);
}
catch(Exception e)
{
    System.err.println("Unable to find and load driver");
    System.exit(1);
}
}

```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

Program For Main GUI:

```
package dbms;

import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class home extends JFrame{
    private JPanel panel1;
    private JButton btnMycity;
    private JButton btnLandmarks;
    private JButton btnServices;
    private JButton btnHotels;
    private JButton btnMetrostations;
    private JButton btnTouristplaces;
    private JButton btnHas_Hotels;
    private JButton btnHas_metrostations;
    private JButton btnHas_touristplaces;
    public home()
    {
        panel1=new JPanel(new GridLayout(3,3,15,15));
        btnMetrostations=new JButton("Bank");
```

```

btnHas_Hotels=new JButton("Linkedto");
btnHas_metrostations=new JButton("AadharCard");
btnHas_touristplaces=new JButton("VerifiedTo");
btnHotels=new JButton("VerificationData");
btnLandmarks=new JButton("AccountIn");
btnMycity=new JButton("Atm");
btnServices=new JButton("TransactionMade");
btnTouristplaces=new JButton("Transaction");
panel1.setBackground(Color.BLACK);
panel1.add(btnMycity);
panel1.add(btnServices);
panel1.add(btnLandmarks);
panel1.add(btnHotels);
panel1.add(btnMetrostations);
panel1.add(btnTouristplaces);
panel1.add(btnHas_Hotels);
panel1.add(btnHas_metrostations);
panel1.add(btnHas_touristplaces);
this.setVisible(true);
this.setSize(600,400);
this.setDefaultCloseOperation(3);
this.add(panel1,BorderLayout.CENTER);
btnHas_Hotels.addActionListener(new ActionListener() {

@Override

```

```

public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    new LinkedToView();
    dispose();
}
});
btnHas_metrostations.addActionListener(new ActionListener() {

```

```

@Override
public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    new AadharCardView();
    dispose();
}
});
btnHas_touristplaces.addActionListener(new ActionListener() {

```

```

@Override
public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    new VerifiedToView();
    dispose();
}
});
btnHotels.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    new VerificationDataView();
    dispose();
}

});

btnLandmarks.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    new AccountInView();
    dispose();
}

});

btnMetrostations.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    new BankView();
    dispose();
}

```

```

});

btnMycity.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {
// TODO Auto-generated method stub
new AtmView();
dispose();
}

});

btnServices.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {
// TODO Auto-generated method stub
new TransactionMadeView();
dispose();
}

});

btnTouristplaces.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {
// TODO Auto-generated method stub
new TransactionView();

```



```

dispose();

}

});

}

public static void main(String args[])
{
new home();
}
}

```

Program For Insert BANK:

```

package dbms;

import javax.swing.*;
import java.sql.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

public class BankInsert extends JFrame{

    private JPanel pn;

    private JLabel bn;

    private JLabel nn;

    private JLabel amt;

    private JLabel ap;

    private JLabel aid;

    private JTextField tpn;

```

```
private JTextField tbn;  
  
private JTextField tnn;  
  
private JTextField tamt;  
  
private JTextField tap;  
  
private JTextField taid;  
  
private JButton btn;  
  
private JMenu Transaction;  
  
private JMenu TransactionMade;  
  
private JMenu ATM;  
  
private JMenu AccountIn;  
  
private JMenu Bank;  
  
private JMenu LinkedTo;  
  
private JMenu Aadhar;  
  
private JMenu VerifiedTo;  
  
private JMenu VerifiedData;  
  
private JMenuBar menubar;  
  
private JMenuItem insert1;  
  
private JMenuItem delete1;  
  
private JMenuItem view1;  
  
private JMenuItem insert2;  
  
private JMenuItem delete2;  
  
private JMenuItem view2;  
  
private JMenuItem insert3;  
  
private JMenuItem delete3;  
  
private JMenuItem view3;  
  
private JMenuItem insert4;  
  
private JMenuItem delete4;  
  
private JMenuItem view4;
```

```
private JMenuItem insert5;

private JMenuItem delete5;

private JMenuItem view5;

private JMenuItem insert6;

private JMenuItem delete6;

private JMenuItem view6;

private JMenuItem insert7;

private JMenuItem delete7;

private JMenuItem view7;

private JMenuItem insert8;

private JMenuItem delete8;

private JMenuItem view8;

private JMenuItem insert9;

private JMenuItem view9;

private JMenuItem delete9;


public BankInsert() {

    pn = new JPanel(new FlowLayout());

    bn = new JLabel("Bank Name");

    tbn = new JTextField(20);

    nn = new JLabel("Name");

    tnn = new JTextField(20);

    amt = new JLabel("Amount");

    tamt = new JTextField(20);

    ap = new JLabel("Account Pin");

    tap = new JTextField(20);

    aid = new JLabel("Account Id");

    taid = new JTextField(20);
```

```
btn = new JButton("Insert");

menubar=new JMenuBar();

Transaction=new JMenu("Transaction");

insert1=new JMenuItem("Insert");

view1=new JMenuItem("View");

delete1=new JMenuItem("Delete");

Transaction.add(insert1);

Transaction.add(view1);

Transaction.add(delete1);

TransactionMade=new JMenu("TransactionMade");

insert2=new JMenuItem("Insert");

view2=new JMenuItem("View");

delete2=new JMenuItem("Delete");

TransactionMade.add(insert2);

TransactionMade.add(view2);

TransactionMade.add(delete2);

ATM=new JMenu("ATM");

insert3=new JMenuItem("Insert");

view3=new JMenuItem("View");

delete3=new JMenuItem("Delete");

ATM.add(insert3);

ATM.add(view3);

ATM.add(delete3);

AccountIn=new JMenu("AccountIn");

insert4=new JMenuItem("Insert");

view4=new JMenuItem("View");

delete4=new JMenuItem("Delete");

AccountIn.add(insert4);
```

```
AccountIn.add(view4);

AccountIn.add(delete4);

Bank=new JMenu("Bank");

insert5=new JMenuItem("Insert");

view5=new JMenuItem("View");

delete5=new JMenuItem("Delete");

Bank.add(insert5);

Bank.add(view5);

Bank.add(delete5);

LinkedTo=new JMenu("LinkedTo");

insert6=new JMenuItem("Insert");

view6=new JMenuItem("View");

delete6=new JMenuItem("Delete");

LinkedTo.add(insert6);

LinkedTo.add(view6);

LinkedTo.add(delete6);

Aadhar=new JMenu("Aadhar");

insert7=new JMenuItem("Insert");

view7=new JMenuItem("View");

delete7=new JMenuItem("Delete");

Aadhar.add(insert7);

Aadhar.add(view7);

Aadhar.add(delete7);

VerifiedTo=new JMenu("VerifiedTo");

insert8=new JMenuItem("Insert");

view8=new JMenuItem("View");

delete8=new JMenuItem("Delete");

VerifiedTo.add(insert8);
```

```

VerifiedTo.add(view8);

VerifiedTo.add(delete8);

VerifiedData=new JMenu("VerifiedData");

insert9=new JMenuItem("Insert");

view9=new JMenuItem("View");

delete9=new JMenuItem("Delete");

VerifiedData.add(insert9);

VerifiedData.add(view9);

VerifiedData.add(delete9);

this.setSize(600,600);

this.setVisible(true);

this.setDefaultCloseOperation(3);

this.add(pn);

//pn.add(lbl);

pn.add(bn);

pn.add(tbn);

pn.add(nn);

pn.add(tnn);

pn.add(amt);

pn.add(tamt);

pn.add(ap);

pn.add(tap);

pn.add(aid);

pn.add(taid);

pn.add(btn);

this.setJMenuBar(menubar);

menubar.add(Transaction);

menubar.add(TransactionMade);

```

```

menubar.add(ATM);

menubar.add(AccountIn);

menubar.add(Bank);

menubar.add(LinkedTo);

menubar.add(Aadhar);

menubar.add(VerifiedTo);

menubar.add(VerifiedData);

insert1.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionInsert();

        dispose();

    }

});

view1.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionView();

        dispose();

    }

});

delete1.addActionListener(new ActionListener() {

    @Override

```

```

        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new TransactionDelete();
            dispose();
        }
    });

```

```

insert2.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new TransactionMadeInsert();
        dispose();
    }

});

```

```

view2.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new TransactionMadeView();
        dispose();
    }

});

```

```

delete2.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {

```



```

        // TODO Auto-generated method stub
        new TransactionMadeDelete();

        dispose();
    }

});

insert3.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new AtmInsert();

        dispose();
    }

});

view3.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new AtmView();

        dispose();
    }

});

delete3.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {

```

```

        // TODO Auto-generated method stub
        new AtmDelete();
        dispose();
    }
});

insert4.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new AccountInInsert();
        dispose();
    }
});

view4.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new AccountInView();
        dispose();
    }
});

delete4.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub

```

```

        new AccountInDelete();

        dispose();
    }

});

insert5.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new BankInsert();

        dispose();

    }

});

view5.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new BankView();

        dispose();

    }

});

delete5.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new BankDelete();

```

```

        dispose();
    }

});

insert6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToInsert();

        dispose();

    }

});

view6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToView();

        dispose();

    }

});

delete6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToDelete();

        dispose();

    }

});

```

```

        }

    });

    insert7.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new AadharCardInsert();

            dispose();

        }

    });

    view7.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new AadharCardView();

            dispose();

        }

    });

    delete7.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new AadharCardDelete();

            dispose();

        }

    });

```

```

});

insert8.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new VerifiedToInsert();

        dispose();

    }

});

view8.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new VerifiedToView();

        dispose();

    }

});

delete8.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new VerifiedToDelete();

        dispose();

    }

});

```

```

insert9.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        new VerificationDataInsert();

        dispose();

    }

});

view9.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        new VerificationDataView();

        dispose();

    }

});

delete9.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        new VerificationDataDelete();

        dispose();

    }

});

```

```

});

btn.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        if(taid.getText().compareTo("")==0 || tnn.getText().compareTo("")==0
|| tamt.getText().compareTo("")==0 || tap.getText().compareTo("")==0 ||
taid.getText().compareTo("")==0)

        {

            JOptionPane.showMessageDialog(null, "Enter All fieldS");

        }

        else

        {

            try{

                Class.forName("oracle.jdbc.driver.OracleDriver");

                Connection con=DriverManager.getConnection(

                    "jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

                Statement stmt=con.createStatement();

                String bname=tbn.getText();

                String username=tnn.getText();

                String accid=taid.getText();

                if(checkaccountid(accid))

                {

                    JOptionPane.showMessageDialog(null,"Enter
Vaild AccountId");

```



```

        throw new Exception();
    }

    String accpin=tap.getText();

    String amount=tamt.getText();

    int x=stmt.executeUpdate("Insert into bank
values("+bname+"",""+username+"",""+accid+"",""+accpin+"",""+amount+"");

    con.commit();

    System.out.println("Inserted rows:"+x);

    tbn.setText("");

    tnn.setText("");

    taid.setText("");

    tap.setText("");

    tamt.setText("");


    con.close();

}

}

});

}

public boolean checkaccountid(String accountid)
{
    try {

        Integer.parseInt(accountid);

        return false;

    }

```

```

        catch(Exception e)
        {
            return true;
        }
    }

    public static void main(String[] args)
    {
        new BankInsert();
    }
}

```

Program For Update Of Hotels Table:

```

package dbms;

import javax.swing.*.*;
import java.sql.*;
import java.awt.*.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;

public class BankView extends JFrame {
    private JPanel pn;
    private JLabel bn;
    private JLabel nn;
    private JLabel amt;
    private JLabel ap;

```

```
private JLabel aid;

private JTextField tpn;

private JTextField tbn;

private JTextField tnn;

private JTextField tamt;

private JTextField tap;

private JTextField taid;

private JLabel lblsac;

private JTextField txtsac;

private JButton btnvw;

private JButton btn;

private JTextArea txtmes;

private JMenu Transaction;

private JMenu TransactionMade;

private JMenu ATM;

private JMenu AccountIn;

private JMenu Bank;

private JMenu LinkedTo;

private JMenu Aadhar;

private JMenu VerifiedTo;

private JMenu VerifiedData;

private JMenuBar menubar;

private JMenuItem insert1;

private JMenuItem delete1;

private JMenuItem view1;

private JMenuItem insert2;
```

```
private JMenuItem delete2;
private JMenuItem view2;
private JMenuItem insert3;
private JMenuItem delete3;
private JMenuItem view3;
private JMenuItem insert4;
private JMenuItem delete4;
private JMenuItem view4;
private JMenuItem insert5;
private JMenuItem delete5;
private JMenuItem view5;
private JMenuItem insert6;
private JMenuItem delete6;
private JMenuItem view6;
private JMenuItem insert7;
private JMenuItem delete7;
private JMenuItem view7;
private JMenuItem insert8;
private JMenuItem delete8;
private JMenuItem view8;
private JMenuItem insert9;
private JMenuItem view9;
private JMenuItem delete9;
public BankView() {
    pn = new JPanel(new FlowLayout());
    txtmes = new JTextArea(10,20);
```

```
lblsac = new JLabel("Enter Account Id:");
txtsac = new JTextField(20);
btnvw = new JButton("View");
bn = new JLabel("Bank Name");
tbn = new JTextField(20);
nn = new JLabel("Name");
tnn = new JTextField(20);
amt = new JLabel("Amount");
tamt = new JTextField(20);
ap = new JLabel("Account Pin");
tap = new JTextField(20);
aid = new JLabel("Account Id");
taid = new JTextField(20);
btn = new JButton("Modify");
menubar=new JMenuBar();
Transaction=new JMenu("Transaction");
insert1=new JMenuItem("Insert");
view1=new JMenuItem("View");
delete1=new JMenuItem("Delete");
Transaction.add(insert1);
Transaction.add(view1);
Transaction.add(delete1);
TransactionMade=new JMenu("TransactionMade");
insert2=new JMenuItem("Insert");
view2=new JMenuItem("View");
delete2=new JMenuItem("Delete");
```

```
TransactionMade.add(insert2);
TransactionMade.add(view2);
TransactionMade.add(delete2);
ATM=new JMenu("ATM");
insert3=new JMenuItem("Insert");
view3=new JMenuItem("View");
delete3=new JMenuItem("Delete");
ATM.add(insert3);
ATM.add(view3);
ATM.add(delete3);
AccountIn=new JMenu("AccountIn");
insert4=new JMenuItem("Insert");
view4=new JMenuItem("View");
delete4=new JMenuItem("Delete");
AccountIn.add(insert4);
AccountIn.add(view4);
AccountIn.add(delete4);
Bank=new JMenu("Bank");
insert5=new JMenuItem("Insert");
view5=new JMenuItem("View");
delete5=new JMenuItem("Delete");
Bank.add(insert5);
Bank.add(view5);
Bank.add(delete5);
LinkedTo=new JMenu("LinkedTo");
insert6=new JMenuItem("Insert");
```

```
view6=new JMenuItem("View");
delete6=new JMenuItem("Delete");
LinkedTo.add(insert6);
LinkedTo.add(view6);
LinkedTo.add(delete6);

Aadhar=new JMenu("Aadhar");
insert7=new JMenuItem("Insert");
view7=new JMenuItem("View");
delete7=new JMenuItem("Delete");
Aadhar.add(insert7);
Aadhar.add(view7);
Aadhar.add(delete7);

VerifiedTo=new JMenu("VerifiedTo");
insert8=new JMenuItem("Insert");
view8=new JMenuItem("View");
delete8=new JMenuItem("Delete");
VerifiedTo.add(insert8);
VerifiedTo.add(view8);
VerifiedTo.add(delete8);

VerifiedData=new JMenu("VerifiedData");
insert9=new JMenuItem("Insert");
view9=new JMenuItem("View");
delete9=new JMenuItem("Delete");
VerifiedData.add(insert9);
VerifiedData.add(view9);
VerifiedData.add(delete9);
```

```
this.setSize(400,400);

this.setTitle("Bank View");

this.setVisible(true);

this.setDefaultCloseOperation(3);

this.add(pn);

pn.add(txtmes);

pn.add(lblsac);

pn.add(txtsac);

pn.add(btnvw);

pn.add(bn);

pn.add(tbn);

pn.add(nn);

pn.add(tnn);

pn.add(amt);

pn.add(tamt);

pn.add(ap);

pn.add(tap);

pn.add(aid);

pn.add(taid);

pn.add(btn);

this.setJMenuBar(menubar);

menubar.add(Transaction);

menubar.add(TransactionMade);

menubar.add(ATM);

menubar.add(AccountIn);

menubar.add(Bank);
```



```

menubar.add(LinkedTo);

menubar.add(Aadhar);

menubar.add(VerifiedTo);

menubar.add(VerifiedData);

insert1.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionInsert();

        dispose();

    }

});

view1.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionView();

        dispose();

    }

});

delete1.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

```

```

        // TODO Auto-generated method stub
        new TransactionDelete();
        dispose();
    }
});

insert2.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new TransactionMadeInsert();
        dispose();
    }
});

view2.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new TransactionMadeView();
        dispose();
    }
});

delete2.addActionListener(new ActionListener() {

    @Override

```

```

        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new TransactionMadeDelete();
            dispose();
        }
    });
    insert3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new AtmInsert();

            dispose();
        }
    });
    view3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new AtmView();
            dispose();
        }
    });
    delete3.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub

    new AtmDelete();

    dispose();

}

});

insert4.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub

    new AccountInInsert();

    dispose();

}

});

view4.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub

    new AccountInView();

    dispose();

}

});

```

```

delete4.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new AccountInDelete();

        dispose();

    }

});

insert5.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new BankInsert();

        dispose();

    }

});

view5.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new BankView();

        dispose();

    }

});

```

```

});

delete5.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new BankDelete();

        dispose();

    }

});

insert6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToInsert();

        dispose();

    }

});

view6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToView();

        dispose();

```

```

        }
    });

    delete6.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new LinkedToDelete();

            dispose();

        }

    });

    insert7.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new AadharCardInsert();

            dispose();

        }

    });

    view7.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new AadharCardView();

```

```

        dispose();
    }
});
delete7.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new AadharCardDelete();
        dispose();
    }
});
insert8.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        new VerifiedToInsert();
        dispose();
    }
});
view8.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub

```



```

        new VerifiedToView();

        dispose();
    }

});

delete8.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new VerifiedToDelete();

        dispose();

    }

});

insert9.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        new VerificationDataInsert();

        dispose();

    }

});

view9.addActionListener(new ActionListener() {

    @Override

```

```

        public void actionPerformed(ActionEvent arg0) {

            // TODO Auto-generated method stub
            new VerificationDataView();
            dispose();

        }

    });

    delete9.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {

            // TODO Auto-generated method stub
            new VerificationDataDelete();
            dispose();

        }

    });

    try{

        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

        Statement stmt=con.createStatement();

        ResultSet rs=stmt.executeQuery("select accid from bank ");

        while(rs.next())

```

```

        {

            txtmes.append(rs.getString(1)+"\n");

        }

        con.close();

    }catch(Exception ex){ System.out.println(ex);}

    btnvw.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            if(txtsac.getText().compareTo("")==0)

                JOptionPane.showMessageDialog(null, "Enter Account

id");

            else

            {

                try{

                    Class.forName("oracle.jdbc.driver.OracleDriver");

                    Connection con=DriverManager.getConnection(

                        "jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

                    Statement stmt=con.createStatement();

```

```

bank where accid="+txtsac.getText()+"");

ResultSet rs=stmt.executeQuery("select * from

while(rs.next())

{

    tbn.setText(rs.getString(1));

    tnn.setText(rs.getString(2));

    taid.setText(rs.getString(3));

    tap.setText(rs.getString(4));

    tamt.setText(rs.getString(5));

}

con.close();

}catch(Exception ex){ System.out.println(ex);}

}

}

});

btn.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        if(taid.getText().compareTo("")==0 ||

tnn.getText().compareTo("")==0 || tamt.getText().compareTo("")==0 ||

tap.getText().compareTo("")==0 || taid.getText().compareTo("")==0)

        {

            JOptionPane.showMessageDialog(null, "Enter All fieldS");

```

```

    }
    else
    {
        try{
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

            Statement stmt=con.createStatement();
            String bname=tbn.getText();
            String username=tnn.getText();
            String accid=taid.getText();
            String accpin=tap.getText();
            String amount=tamt.getText();

            int x=stmt.executeUpdate("update bank set
bname='"+bname+"',username='"+username+"',accid='"+accid+"',accpin='"+accpin+"',amount='"+
amount+" where accid="+txtsac.getText());

            con.commit();

            System.out.println("Updated rows:"+x);

            tbn.setText("");
            tnn.setText("");
            taid.setText("");
            tap.setText("");
            tamt.setText("");
            txtmes.setText("");
            txtsac.setText("");

            ResultSet rs=stmt.executeQuery("select accid
from bank ");

```

```

        while(rs.next())
        {
            txtmes.append(rs.getString(1)+"\n");
        }
        con.close();

    }catch(Exception ex){ System.out.println(ex);}

    }

    }

    });

}

public static void main(String[] args)
{
    new BankView();

}

}

```

Program for Delete BANK:

```

package dbms;

import java.sql.*;

import javax.swing.*;

import java.awt.*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

```

```
public class BankDelete extends JFrame {  
    private JPanel pn;  
    private JLabel bn;  
    private JLabel nn;  
    private JLabel amt;  
    private JLabel ap;  
    private JLabel aid;  
    private JTextField tpn;  
    private JTextField tbn;  
    private JTextField tnn;  
    private JTextField tamt;  
    private JTextField tap;  
    private JTextField taaid;  
    private JButton btn;  
    private JTextArea txtmes;  
    private JLabel lblsac;  
    private JTextField txtsac;  
    private JButton btnvw;  
    private JMenu Transaction;  
    private JMenu TransactionMade;  
    private JMenu ATM;  
    private JMenu AccountIn;  
    private JMenu Bank;  
    private JMenu LinkedTo;  
    private JMenu Aadhar;
```

```
private JMenu VerifiedTo;
private JMenu VerifiedData;
private JMenuBar menubar;
private JMenuItem insert1;
private JMenuItem delete1;
private JMenuItem view1;
private JMenuItem insert2;
private JMenuItem delete2;
private JMenuItem view2;
private JMenuItem insert3;
private JMenuItem delete3;
private JMenuItem view3;
private JMenuItem insert4;
private JMenuItem delete4;
private JMenuItem view4;
private JMenuItem insert5;
private JMenuItem delete5;
private JMenuItem view5;
private JMenuItem insert6;
private JMenuItem delete6;
private JMenuItem view6;
private JMenuItem insert7;
private JMenuItem delete7;
private JMenuItem view7;
private JMenuItem insert8;
private JMenuItem delete8;
```



```

private JMenuItem view8;

private JMenuItem insert9;

private JMenuItem view9;

private JMenuItem delete9;

public BankDelete() {

    pn = new JPanel(new FlowLayout());

    txtmes = new JTextArea(10,20);

    lblsac = new JLabel("Enter Account Id:");

    txtsac = new JTextField(20);

    btnvw = new JButton("View");

    bn = new JLabel("Bank Name");

    tbn = new JTextField(20);

    nn = new JLabel("Name");

    tnn = new JTextField(20);

    amt = new JLabel("Amount");

    tamt = new JTextField(20);

    ap = new JLabel("Account Pin");

    tap = new JTextField(20);

    aid = new JLabel("Account Id");

    taid = new JTextField(20);

    btn = new JButton("Delete");

    menubar=new JMenuBar();

    Transaction=new JMenu("Transaction");

    insert1=new JMenuItem("Insert");

    view1=new JMenuItem("View");

    delete1=new JMenuItem("Delete");

```

```
Transaction.add(insert1);
Transaction.add(view1);
Transaction.add(delete1);
TransactionMade=new JMenu("TransactionMade");
insert2=new JMenuItem("Insert");
view2=new JMenuItem("View");
delete2=new JMenuItem("Delete");
TransactionMade.add(insert2);
TransactionMade.add(view2);
TransactionMade.add(delete2);
ATM=new JMenu("ATM");
insert3=new JMenuItem("Insert");
view3=new JMenuItem("View");
delete3=new JMenuItem("Delete");
ATM.add(insert3);
ATM.add(view3);
ATM.add(delete3);
AccountIn=new JMenu("AccountIn");
insert4=new JMenuItem("Insert");
view4=new JMenuItem("View");
delete4=new JMenuItem("Delete");
AccountIn.add(insert4);
AccountIn.add(view4);
AccountIn.add(delete4);
Bank=new JMenu("Bank");
insert5=new JMenuItem("Insert");
```

```
view5=new JMenuItem("View");
delete5=new JMenuItem("Delete");
Bank.add(insert5);
Bank.add(view5);
Bank.add(delete5);
LinkedTo=new JMenu("LinkedTo");
insert6=new JMenuItem("Insert");
view6=new JMenuItem("View");
delete6=new JMenuItem("Delete");
LinkedTo.add(insert6);
LinkedTo.add(view6);
LinkedTo.add(delete6);
Aadhar=new JMenu("Aadhar");
insert7=new JMenuItem("Insert");
view7=new JMenuItem("View");
delete7=new JMenuItem("Delete");
Aadhar.add(insert7);
Aadhar.add(view7);
Aadhar.add(delete7);
VerifiedTo=new JMenu("VerifiedTo");
insert8=new JMenuItem("Insert");
view8=new JMenuItem("View");
delete8=new JMenuItem("Delete");
VerifiedTo.add(insert8);
VerifiedTo.add(view8);
VerifiedTo.add(delete8);
```

```
VerifiedData=new JMenu("VerifiedData");

insert9=new JMenuItem("Insert");

view9=new JMenuItem("View");

delete9=new JMenuItem("Delete");

VerifiedData.add(insert9);

VerifiedData.add(view9);

VerifiedData.add(delete9);

this.setSize(400,400);

this.setTitle("Bank View");

this.setVisible(true);

this.setDefaultCloseOperation(3);

this.add(pn);

pn.add(txtmes);

pn.add(lblsac);

pn.add(txtsac);

pn.add(btnvw);

pn.add(bn);

pn.add(tbn);

pn.add(nn);

pn.add(tnn);

pn.add(amt);

pn.add(tamt);

pn.add(ap);

pn.add(tap);

pn.add(aid);

pn.add(taid);
```

```

pn.add(btn);

this.setJMenuBar(menubar);

menubar.add(Transaction);

menubar.add(TransactionMade);

menubar.add(ATM);

menubar.add(AccountIn);

menubar.add(Bank);

menubar.add(LinkedTo);

menubar.add(Aadhar);

menubar.add(VerifiedTo);

menubar.add(VerifiedData);

insert1.addActionListener(new ActionListener() {

```

```

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionInsert();

        dispose();

    }

});

view1.addActionListener(new ActionListener() {

```

```

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionView();

```

```

        dispose();
    }
});

delete1.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionDelete();

        dispose();

    }

});

insert2.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionMadeInsert();

        dispose();

    }

});

view2.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

```

```

        new TransactionMadeView();

        dispose();
    }

});

delete2.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new TransactionMadeDelete();

        dispose();

    }

});

insert3.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new AtmInsert();

        dispose();

    }

});

view3.addActionListener(new ActionListener() {

    @Override

```

```

        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new AtmView();
            dispose();
        }
    });
    delete3.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new AtmDelete();
            dispose();
        }
    });
    insert4.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            new AccountInInsert();
            dispose();
        }
    });
    view4.addActionListener(new ActionListener() {

```



```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub
    new AccountInView();

    dispose();

}

});

delete4.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub
    new AccountInDelete();

    dispose();

}

});

insert5.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub
    new BankInsert();

    dispose();

}

});

view5.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub
    new BankView();

    dispose();

}

});

delete5.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub
    new BankDelete();

    dispose();

}

});

insert6.addActionListener(new ActionListener() {

```

```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub
    new LinkedToInsert();

    dispose();

}

});

```

```

view6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToView();

        dispose();

    }

});

delete6.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new LinkedToDelete();

        dispose();

    }

});

insert7.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new AadharCardInsert();

        dispose();

    }

});

```

```

});

view7.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new AadharCardView();

        dispose();

    }

});

delete7.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new AadharCardDelete();

        dispose();

    }

});

insert8.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        new VerifiedToInsert();

        dispose();

```

```

        }

    });

    view8.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new VerifiedToView();

            dispose();

        }

    });

    delete8.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            new VerifiedToDelete();

            dispose();

        }

    });

    insert9.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent arg0) {

            // TODO Auto-generated method stub

            new VerificationDataInsert();

```

```

        dispose();

    }

});

view9.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        new VerificationDataView();

        dispose();

    }

});

delete9.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        new VerificationDataDelete();

        dispose();

    }

});

try{

    Class.forName("oracle.jdbc.driver.OracleDriver");

```

```

Connection con=DriverManager.getConnection(
"jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

Statement stmt=con.createStatement();
ResultSet rs=stmt.executeQuery("select accid from bank ");
while(rs.next())
{
    txtmes.append(rs.getString(1)+"\n");

}

con.close();

}catch(Exception ex){ System.out.println(ex);}
btnvw.addActionListener(new ActionListener() {

@Override
public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    if(txtsac.getText().compareTo("")==0)
        JOptionPane.showMessageDialog(null, "Enter Account
id");

    else
    {
        try{

```

```

        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con=DriverManager.getConnection(

            "jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

        Statement stmt=con.createStatement();
        ResultSet rs=stmt.executeQuery("select * from
bank where accid="+txtsac.getText()+"");

        while(rs.next())
        {

            tbn.setText(rs.getString(1));
            tnn.setText(rs.getString(2));
            taid.setText(rs.getString(3));
            tap.setText(rs.getString(4));
            tamt.setText(rs.getString(5));

        }

        con.close();

    }catch(Exception ex){ System.out.println(ex);}

    }

}

});

btn.addActionListener(new ActionListener() {

```



```

@Override

public void actionPerformed(ActionEvent e) {

    // TODO Auto-generated method stub

    if(taid.getText().compareTo("")==0 ||
tnn.getText().compareTo("")==0 || tamt.getText().compareTo("")==0 ||
tap.getText().compareTo("")==0 || taid.getText().compareTo("")==0)

    {

        JOptionPane.showMessageDialog(null, "Enter All fieldS");

    }

    else

    {

        try{

            Class.forName("oracle.jdbc.driver.OracleDriver");

            Connection con=DriverManager.getConnection(

                "jdbc:oracle:thin:@localhost:1521:xe","pranav","pranav23");

            Statement stmt=con.createStatement();

            String bname=tbn.getText();

            String username=tnn.getText();

            String accid=taid.getText();

            String accpin=tap.getText();

            String amount=tamt.getText();

            int x=stmt.executeUpdate("delete from bank

where accid="+txtsac.getText());

            con.commit();

```

```

        System.out.println("Deleted rows:"+x);

        tbn.setText("");
        tnn.setText("");
        taid.setText("");
        tap.setText("");
        tamt.setText("");
        txtmes.setText("");
        txtsac.setText("");

        ResultSet rs=stmt.executeQuery("select accid
from bank ");

        while(rs.next())
        {
            txtmes.append(rs.getString(1)+"\n")
        }

        con.close();

    }catch(Exception ex){ System.out.println(ex);}

    }

}

});

}

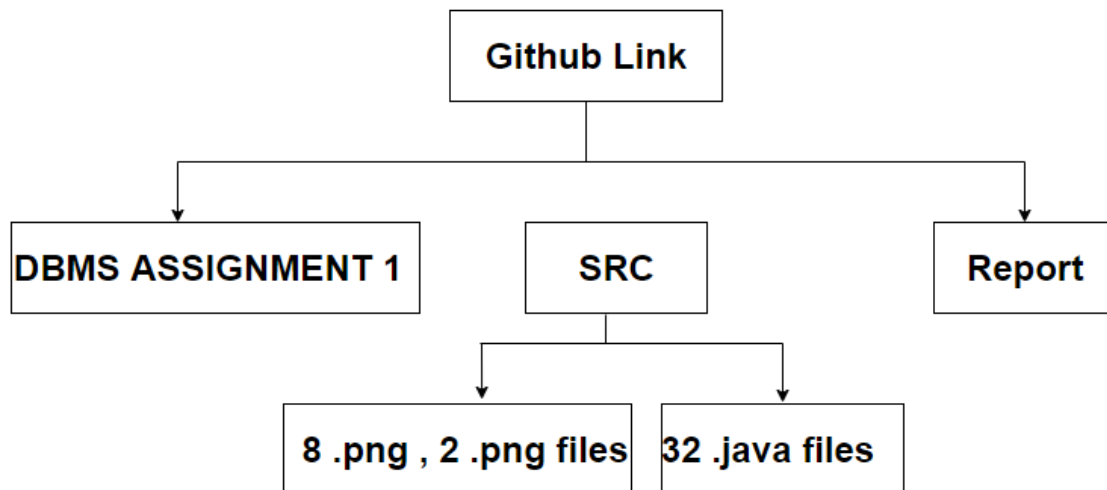
public static void main(String[] args)
{
    new BankDelete();
}

}

```

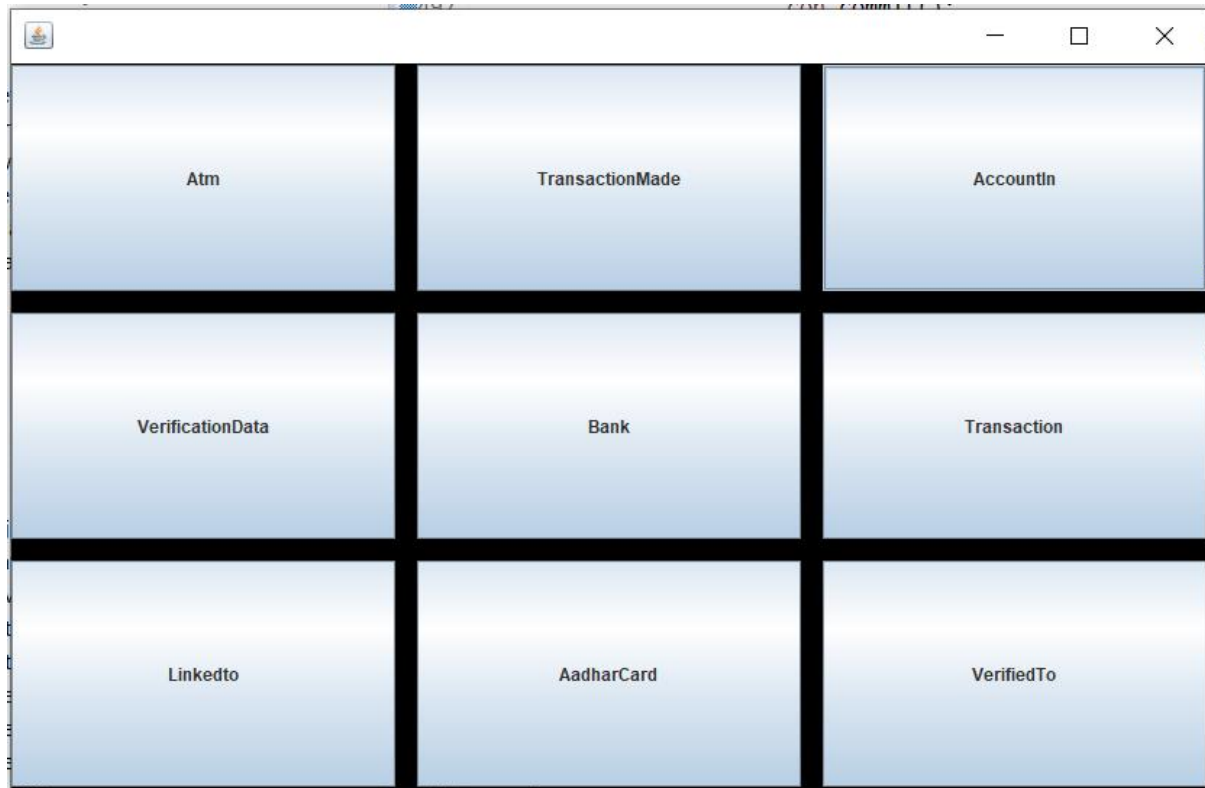
GITHUB LINK AND FOLDER STRUCTURE:

<https://github.com/dyashovardhanreddy/MYCITYINFORMATION>

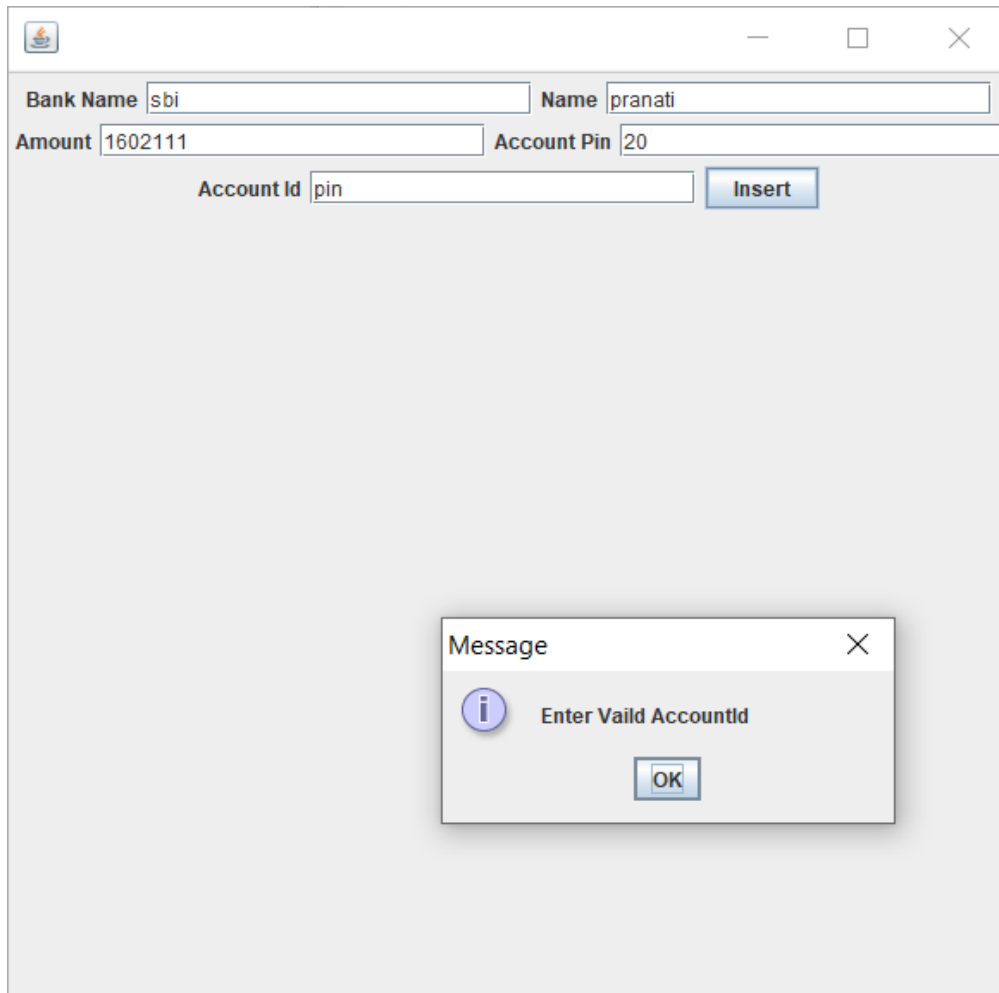


OUTPUT :

GUI For Main Frame:



ERROR MESSAGES:




The screenshot displays a web application interface with a form and an error message dialog. The form contains the following fields and values:


Field	Value
Bank Name	sbi
Name	pranati
Amount	1602111
Account Pin	20
Account Id	pin

An "Insert" button is located to the right of the "Account Id" field. Below the form, a "Message" dialog box is displayed with the following content:

Message

 Enter Vaild AccountId

OK



—

□

×

Bank Name

SBI

Name

PRANATI

Amount

200

Account Pin


10

Account Id

Insert

Message

×



Enter All field S

OK

Java GUI Insert in Bank:

Transaction TransactionMade ATM AccountIn Bank LinkedTo Aadhar VerifiedTo VerifiedData

Bank Name Name

Amount Account Pin

Account Id

Run SQL Command Line

SQL*Plus: Release 11.2.0.2.0 Production on Wed Apr 29 21:45:09 2020

Copyright (c) 1982, 2010, Oracle. All rights reserved.

SQL> conn pranav/pranav23

Connected.

SQL> select * from bank;

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
sbi	varun	1602115	115	12000
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000

SQL> select * from bank;

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
sbi	varun	1602115	115	12000
sbi	pranati	1602111	11	20000
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000

6 rows selected.

SQL>

Update GUI for BANK Table:

The screenshot displays two windows side-by-side. The left window, titled 'Bank View', is a GUI for managing bank accounts. It features a list of account IDs (1602061, 1602066, 1602111, 1602115, 1602116, 1602120) and a search bar. Below the list, there are input fields for 'Name' (sbi), 'Amount' (pranati), 'Account Pin' (20000), and 'Account Id' (111). A 'View' button is present next to the 'Bank Name' field. The right window, titled 'Run SQL Command Line', shows the execution of SQL queries. The first query is 'select * from bank;', which returns 6 rows of data. The second query is 'select * from bank;', which also returns 6 rows of data. The data is displayed in a table format with columns: BNAME, USERNAME, ACCID, ACCPIN, and AMOUNT.

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
sbi	varun	1602115	115	12000
sbi	pranati	1602111	11	20000

6 rows selected.

SQL> select * from bank;

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
sbi	varun	1602115	115	12000
sbi	pranati	1602111	111	20000
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000

6 rows selected.

SQL>

GUI for Before Delete operation on BANK Table:

Bank View

Transac Transaction ATI Accou Bar Linker Aadh Verifie Verified

1602061
1602066
1602115
1602116
1602120

Enter Account Id:

1602115

View

Bank Name

sbi Name

varun Amount

12000 Account Pin

115 Account Id

1602115

Delete

Run SQL Command Line

6 rows selected.

```
SQL> select * from;  
select * from  
*
```

ERROR at line 1:
ORA-00903: invalid table name

```
SQL> select * from bank;
```

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
sbi	varun	1602115	115	12000
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000

```
SQL>
```

DataBase After Delete:

```
Run SQL Command Line
6 rows selected.

SQL> select * from;
select * from
      *
ERROR at line 1:
ORA-00903: invalid table name

SQL> select * from bank;
```

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
sbi	varun	1602115	115	12000
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000

```
SQL> select * from bank;
```

BNAME	USERNAME	ACCID	ACCPIN	AMOUNT
sbi	pranav	1602116	116	10000
hdfc	abhi	1602061	61	20000
pnb	yasho	1602120	120	40000
icic	badrinath	1602066	66	30000

```
SQL> _
```

DISCUSSION AND FUTURE WORK!

This project tells us about we can access ATM by using our fingerprint by linking Aadhar card.

This make the more secured will using withdrawing or depositing money at ATM centres .

Future our government can plan these kind of projects to be implemented.

REFERENCES:

<https://www.decodejava.com/what-is-jdbc.htm>

<https://docs.oracle.com/javase/8/docs/api/>

<https://www.tutorialspoint.com/swing/index.htm>