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ATM SIMULATOR SYSTEM

PROBLEM STATEMENT-

ATM SIMULATOR SYSTEM using swing and AWT for GUI , JDBC database and Message API for mobile message alert.

SWING –

Swing is a set of program components for Java programmers that provide the **ability** to create graphical user interface (GUI) components, such as buttons and scroll bars, that are independent of the windowing system for specific operating system. Swing components are used with the Java Foundation Classes (JFC).

AWT-

Abstract Window Toolkit (**AWT**) is a set of application program interfaces (API s) used by **Java** programmers to create graphical user interface (GUI) objects, such as buttons, scroll bars, and windows. **AWT** is part of the **Java** Foundation Classes (JFC) from Sun Microsystems, the company that originated **Java**.

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.

Message API-

The **Java Message** Service (JMS) **API**, a **Java API** that allows applications to create, send, receive, and read **messages** using reliable, asynchronous, loosely coupled communication.

CODE-

CONN CLASS-

```
package ASimulatorSystem;

import java.sql.*;

public class conn{

    Connection c;

    Statement s;

    public conn(){

        try{

            Class.forName("com.mysql.jdbc.Driver");

            c =DriverManager.getConnection("jdbc:mysql:///project5","root","");

            s =c.createStatement();

        }catch(Exception e){

            System.out.println(e);

        }

    }

}
```

SIGNUP 1 CLASS-

```
package ASimulatorSystem;

import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

import java.sql.*;
```

```
import java.util.*;

public class Signup extends JFrame implements ActionListener{

    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15;

    JTextField t1,t2,t3,t4,t5,t6,t7;

    JRadioButton r1,r2,r3,r4,r5;

    JButton b;

    JComboBox c1,c2,c3;

    Random ran = new Random();

    long first4 = (ran.nextLong() % 9000L) + 1000L;

    long first = Math.abs(first4);

    Signup(){

        //Move the text to the center

        setFont(new Font("System", Font.BOLD, 22));

        Font f = getFont();

        FontMetrics fm = getFontMetrics(f);

        int x = fm.stringWidth("NEW ACCOUNT APPLICATION FORM");

        int y = fm.stringWidth(" ");

        int z = getWidth() - x;

        int w = z/y;

        String pad = "";

        //for (int i=0; i!=w; i++) pad += " ";

        pad = String.format("%"+w+"s", pad);

        setTitle(pad+"NEW ACCOUNT APPLICATION FORM");
```

```
l1 = new JLabel("APPLICATION FORM NO. "+first);  
l1.setFont(new Font("Raleway", Font.BOLD, 38));
```

```
l2 = new JLabel("Page 1: Personal Details");  
l2.setFont(new Font("Raleway", Font.BOLD, 22));
```

```
l3 = new JLabel("Name:");  
l3.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l4 = new JLabel("Father's Name:");  
l4.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l5 = new JLabel("Date of Birth:");  
l5.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l6 = new JLabel("Gender:");  
l6.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l7 = new JLabel("Email Address:");  
l7.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l8 = new JLabel("Marital Status:");  
l8.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l9 = new JLabel("Address:");  
l9.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l10 = new JLabel("City:");  
l10.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l11 = new JLabel("Pin Code:");  
  
l11.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l12 = new JLabel("State:");  
  
l12.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l13 = new JLabel("Date");  
  
l13.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
l14 = new JLabel("Month");  
  
l14.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
l15 = new JLabel("Year");  
  
l15.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t1 = new JTextField();  
  
t1.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t2 = new JTextField();  
  
t2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t3 = new JTextField();  
  
t3.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t4 = new JTextField();  
  
t4.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t5 = new JTextField();  
  
t5.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t6 = new JTextField();  
  
t6.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t7 = new JTextField();
```

```
t7.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b = new JButton("Next");
```

```
b.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b.setBackground(Color.BLACK);
```

```
b.setForeground(Color.WHITE);
```

```
r1 = new JRadioButton("Male");
```

```
r1.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
r1.setBackground(Color.WHITE);
```

```
r2 = new JRadioButton("Female");
```

```
r2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
r2.setBackground(Color.WHITE);
```

```
r3 = new JRadioButton("Married");
```

```
r3.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
r3.setBackground(Color.WHITE);
```

```
r4 = new JRadioButton("Unmarried");
```

```
r4.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
r4.setBackground(Color.WHITE);
```

```
r5 = new JRadioButton("Other");
```

```
r5.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
r5.setBackground(Color.WHITE);
```

```
String date[] = {"1","2","3","4","5","6","7","8","9"};
```

```
c1 = new JComboBox(date);
```

```
c1.setBackground(Color.WHITE);
```

```
String month[] = {"January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"};
```

```
c2 = new JComboBox(month);
```

```
c2.setBackground(Color.WHITE);
```

```
String year[] = {"1990", "1991", "1992", "1993", "1994", "1995", "1996", "1997", "1998", "1999", "2000", "2001", "2002"};
```

```
c3 = new JComboBox(year);
```

```
c3.setBackground(Color.WHITE);
```

```
setLayout(null);
```

```
l1.setBounds(140,20,600,40);
```

```
add(l1);
```

```
l2.setBounds(290,70,600,30);
```

```
add(l2);
```

```
l3.setBounds(100,140,100,30);
```

```
add(l3);
```

```
t1.setBounds(300,140,400,30);
```

```
add(t1);
```

```
l4.setBounds(100,190,200,30);
```

```
add(l4);
```

```
t2.setBounds(300,190,400,30);
```

```
add(t2);
```

```
l5.setBounds(100,240,200,30);
```

```
add(l5);
```



```
l13.setBounds(300,240,40,30);
```

```
add(l13);
```

```
c1.setBounds(340,240,60,30);
```

```
add(c1);
```

```
l14.setBounds(410,240,50,30);
```

```
add(l14);
```

```
c2.setBounds(460,240,100,30);
```

```
add(c2);
```

```
l15.setBounds(570,240,40,30);
```

```
add(l15);
```

```
c3.setBounds(610,240,90,30);
```

```
add(c3);
```

```
l6.setBounds(100,290,200,30);
```

```
add(l6);
```

```
r1.setBounds(300,290,60,30);
```

```
add(r1);
```

```
r2.setBounds(450,290,90,30);
```

```
add(r2);
```

```
l7.setBounds(100,340,200,30);
```

```
add(l7);
```

```
t3.setBounds(300,340,400,30);
```

```
add(t3);
```

```
l8.setBounds(100,390,200,30);
```

```
add(l8);
```

```
r3.setBounds(300,390,100,30);
```

```
add(r3);
```

```
r4.setBounds(450,390,100,30);
```

```
add(r4);
```

```
r5.setBounds(635,390,100,30);
```

```
add(r5);
```

```
l9.setBounds(100,440,200,30);
```

```
add(l9);
```

```
t4.setBounds(300,440,400,30);
```

```
add(t4);
```

```
l10.setBounds(100,490,200,30);
```

```
add(l10);
```

```
t5.setBounds(300,490,400,30);
```

```
add(t5);
```

```
l11.setBounds(100,540,200,30);
```

```
add(l11);
```

```
t6.setBounds(300,540,400,30);
```

```
add(t6);
```

```
l12.setBounds(100,590,200,30);
```

```
add(l12);
```

```
t7.setBounds(300,590,400,30);

add(t7);


b.setBounds(620,660,80,30);

add(b);


b.addActionListener(this);


getContentPane().setBackground(Color.WHITE);


setSize(850,850);

setLocation(500,90);

setVisible(true);
}


public void actionPerformed(ActionEvent ae){


String a = t1.getText();

String b = t2.getText();


String ac = (String)c1.getSelectedItem();

String bc = (String)c2.getSelectedItem();

String cc = (String)c3.getSelectedItem();


String d = null;

if(r1.isSelected()){

    d = "Male";

}

else if(r2.isSelected()){

    d = "Female";

}


String e = t3.getText();
```

```

String f = null;

if(r3.isSelected()){

    f = "Married";

}else if(r4.isSelected()){

    f = "Unmarried";

}else if(r5.isSelected()){

    f = "Other";

}

String g = t4.getText();

String h = t5.getText();

String i = t6.getText();

String j = t7.getText();

try{

    if(t6.getText().equals("")){

        JOptionPane.showMessageDialog(null, "Fill all the required fields");

    }else{

        conn c1 = new conn();

        String q1 = "insert into signup
values('"+a+"','"+b+"','"+ac+"','"+bc+"','"+cc+"','"+d+"','"+e+"','"+f+"','"+g+"','"+h+"','"+i+"','"+j+"','"+first+"')";

        c1.s.executeUpdate(q1);

        new Signup2().setVisible(true);

        setVisible(false);

    }

}catch(Exception ex){

    ex.printStackTrace();

}

```

```
}

public static void main(String[] args){

    new Signup().setVisible(true);

}

}
```

SIGNUP 2 CLASS.

```
package ASimulatorSystem;

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

public class Signup2 extends JFrame implements ActionListener{

    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12;
```

```
JButton b;
```

```
JRadioButton r1,r2,r3,r4;
```

```
TextField t1,t2,t3;
```

```
JComboBox c1,c2,c3,c4,c5;
```

```
Signup2(){
```

```
    setFont(new Font("System", Font.BOLD, 22));
```

```
    Font f = getFont();
```

```
    FontMetrics fm = getFontMetrics(f);
```

```
    int x = fm.stringWidth("NEW ACCOUNT APPLICATION FORM - PAGE 2");
```

```
    int y = fm.stringWidth(" ");
```

```
    int z = getWidth()/2 - (x/2);
```

```
    int w = z/y;
```

```
    String pad = "";
```

```
    //for (int i=0; i!=w; i++) pad += " ";
```

```
    pad = String.format("%"+w+"s", pad);
```

```
    setTitle(pad+"NEW ACCOUNT APPLICATION FORM - PAGE 2");
```

```
    l1 = new JLabel("Page 2: Additional Details");
```

```
    l1.setFont(new Font("Raleway", Font.BOLD, 22));
```

```
    l2 = new JLabel("Religion:");
```

```
    l2.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
    l3 = new JLabel("Category:");
```

```
    l3.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l4 = new JLabel("Income:");
```

```
l4.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l5 = new JLabel("Educational");
```

```
l5.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l11 = new JLabel("Qualification:");
```

```
l11.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l6 = new JLabel("Occupation:");
```

```
l6.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l7 = new JLabel("PAN Number:");
```

```
l7.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l8 = new JLabel("Aadhar Number:");
```

```
l8.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l9 = new JLabel("Senior Citizen:");
```

```
l9.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l10 = new JLabel("Existing Account:");
```

```
l10.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l12 = new JLabel("Form No:");
```

```
l12.setFont(new Font("Raleway", Font.BOLD, 13));
```

```
b = new JButton("Next");
```

```
b.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b.setBackground(Color.BLACK);
```

```
b.setForeground(Color.WHITE);
```

```
t1 = new JTextField();  
  
t1.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t2 = new JTextField();  
  
t2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t3 = new JTextField();  
  
t3.setFont(new Font("Raleway", Font.BOLD, 13));
```

```
r1 = new JRadioButton("Yes");  
  
r1.setFont(new Font("Raleway", Font.BOLD, 14));  
  
r1.setBackground(Color.WHITE);
```

```
r2 = new JRadioButton("No");  
  
r2.setFont(new Font("Raleway", Font.BOLD, 14));  
  
r2.setBackground(Color.WHITE);
```

```
r3 = new JRadioButton("Yes");  
  
r3.setFont(new Font("Raleway", Font.BOLD, 14));  
  
r3.setBackground(Color.WHITE);
```

```
r4 = new JRadioButton("No");  
  
r4.setFont(new Font("Raleway", Font.BOLD, 14));  
  
r4.setBackground(Color.WHITE);
```

```
String religion[] = {"Hindu", "Muslim", "Sikh", "Christian", "Other"};  
  
c1 = new JComboBox(religion);  
  
c1.setBackground(Color.WHITE);  
  
c1.setFont(new Font("Raleway", Font.BOLD, 14));
```



```
String category[] = {"General","OBC","SC","ST","Other"};
```

```
c2 = new JComboBox(category);
```

```
c2.setBackground(Color.WHITE);
```

```
c2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
String income[] = {"Null","<1,50,000","<2,50,000","<5,00,000","Upto 10,00,000","Above 10,00,000"};
```

```
c3 = new JComboBox(income);
```

```
c3.setBackground(Color.WHITE);
```

```
c3.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
String education[] = {"Non-Graduate","Graduate","Post-Graduate","Doctrate","Others"};
```

```
c4 = new JComboBox(education);
```

```
c4.setBackground(Color.WHITE);
```

```
c4.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
String occupation[] = {"Salaried","Self-Employed","Business","Student","Retired","Others"};
```

```
c5 = new JComboBox(occupation);
```

```
c5.setBackground(Color.WHITE);
```

```
c5.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
setLayout(null);
```

```
l12.setBounds(700,10,60,30);
```

```
add(l12);
```

```
t3.setBounds(760,10,60,30);
```

```
add(t3);
```

```
l1.setBounds(280,30,600,40);
```

```
add(l1);
```

```
l2.setBounds(100,120,100,30);
```

```
add(l2);
```

```
c1.setBounds(350,120,320,30);
```

```
add(c1);
```

```
l3.setBounds(100,170,100,30);
```

```
add(l3);
```

```
c2.setBounds(350,170,320,30);
```

```
add(c2);
```

```
l4.setBounds(100,220,100,30);
```

```
add(l4);
```

```
c3.setBounds(350,220,320,30);
```

```
add(c3);
```

```
l5.setBounds(100,270,150,30);
```

```
add(l5);
```

```
c4.setBounds(350,270,320,30);
```

```
add(c4);
```

```
l11.setBounds(100,290,150,30);
```

```
add(l11);
```

```
l6.setBounds(100,340,150,30);
```

```
add(l6);
```

```
c5.setBounds(350,340,320,30);
```

```
add(c5);
```

```
l7.setBounds(100,390,150,30);
```

```
add(l7);
```

```
t1.setBounds(350,390,320,30);
```

```
add(t1);
```

```
l8.setBounds(100,440,180,30);
```

```
add(l8);
```

```
t2.setBounds(350,440,320,30);
```

```
add(t2);
```

```
l9.setBounds(100,490,150,30);
```

```
add(l9);
```

```
r1.setBounds(350,490,100,30);
```

```
add(r1);
```

```
r2.setBounds(460,490,100,30);
```

```
add(r2);
```

```
l10.setBounds(100,540,180,30);
```

```
add(l10);
```

```
r3.setBounds(350,540,100,30);
```

```
add(r3);
```

```
r4.setBounds(460,540,100,30);
```

```
add(r4);
```

```
b.setBounds(570,600,100,30);
```

```
add(b);
```

```
b.addActionListener(this);
```

```
getContentPane().setBackground(Color.WHITE);

setSize(850,850);

setLocation(500,90);

setVisible(true);

}
```

```
public void actionPerformed(ActionEvent ae){
```

```
String a = (String)c1.getSelectedItem();

String b = (String)c2.getSelectedItem();

String c = (String)c3.getSelectedItem();

String d = (String)c4.getSelectedItem();

String e = (String)c5.getSelectedItem();
```

```
String f = t1.getText();

String g = t2.getText();
```

```
String h = "";

if(r1.isSelected()){

    h = "Yes";

}

else if(r2.isSelected()){

    h = "No";

}
```

```
String i = "";

if(r3.isSelected()){

    i = "Yes";

}else if(r4.isSelected()){

    i = "No";

}
```

```
String j = t3.getText();
```

```
try{
```

```
    if(t2.getText().equals("")){
```

```
        JOptionPane.showMessageDialog(null, "Fill all the required fields");
```

```
    }else{
```

```
        conn c1 = new conn();
```

```
        String q1 = "insert into signup2 values('"+a+"','"+b+"','"+c+"','"+d+"','"+e+"','"+f+"','"+g+"','"+h+"','"+i+"','"+j+"')";
```

```
        c1.s.executeUpdate(q1);
```

```
        new Signup3().setVisible(true);
```

```
        setVisible(false);
```

```
    }
```

```
    }catch(Exception ex){
```

```
        ex.printStackTrace();
```

```
    }
```

```
}
```

```
public static void main(String[] args){
```

```
    new Signup2().setVisible(true);
```

```
}
```

```
}
```

SIGNUP 3 CLASS.

```
package ASimulatorSystem;
```

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
import javax.swing.*;
```

```
import java.sql.*;
```

```
import java.util.*;
```

```
public class Signup3 extends JFrame implements ActionListener{
```

```
    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11;
```

```
    JRadioButton r1,r2,r3,r4;
```

```
    JButton b1,b2;
```

```
    JCheckBox c1,c2,c3,c4,c5,c6,c7;
```

```
    JTextField t1;
```

```
    Signup3(){
```

```
        setFont(new Font("System", Font.BOLD, 22));
```

```
        Font f = getFont();
```

```
        FontMetrics fm = getFontMetrics(f);
```

```
        int x = fm.stringWidth("NEW ACCOUNT APPLICATION FORM - PAGE 3");
```

```
        int y = fm.stringWidth(" ");
```

```
        int z = getWidth()/2 - (x/2);
```

```
        int w = z/y;
```

```
        String pad ="";
```

```
        //for (int i=0; i!=w; i++) pad += " ";
```

```
pad = String.format("%'+w+'s", pad);
```

```
setTitle(pad+"NEW ACCOUNT APPLICATION FORM - PAGE 3");
```

```
l1 = new JLabel("Page 3: Account Details");
```

```
l1.setFont(new Font("Raleway", Font.BOLD, 22));
```

```
l2 = new JLabel("Account Type:");
```

```
l2.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l3 = new JLabel("Card Number:");
```

```
l3.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l4 = new JLabel("XXXX-XXXX-XXXX-4184");
```

```
l4.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l5 = new JLabel("(Your 16-digit Card number)");
```

```
l5.setFont(new Font("Raleway", Font.BOLD, 12));
```

```
l6 = new JLabel("It would appear on ATM Card/Cheque Book and Statements");
```

```
l6.setFont(new Font("Raleway", Font.BOLD, 12));
```

```
l7 = new JLabel("PIN:");
```

```
l7.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l8 = new JLabel("XXXX");
```

```
l8.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l9 = new JLabel("(4-digit password)");
```

```
l9.setFont(new Font("Raleway", Font.BOLD, 12));
```

```
l10 = new JLabel("Services Required:");
```

```
l10.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
l1 = new JLabel("Form No:");  
  
l1.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b1 = new JButton("Submit");  
  
b1.setFont(new Font("Raleway", Font.BOLD, 14));  
  
b1.setBackground(Color.BLACK);  
  
b1.setForeground(Color.WHITE);
```

```
b2 = new JButton("Cancel");  
  
b2.setFont(new Font("Raleway", Font.BOLD, 14));  
  
b2.setBackground(Color.BLACK);  
  
b2.setForeground(Color.WHITE);
```

```
c1 = new JCheckBox("ATM CARD");  
  
c1.setBackground(Color.WHITE);  
  
c1.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
c2 = new JCheckBox("Internet Banking");  
  
c2.setBackground(Color.WHITE);  
  
c2.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
c3 = new JCheckBox("Mobile Banking");  
  
c3.setBackground(Color.WHITE);  
  
c3.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
c4 = new JCheckBox("EMAIL Alerts");  
  
c4.setBackground(Color.WHITE);  
  
c4.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
c5 = new JCheckBox("Cheque Book");  
  
c5.setBackground(Color.WHITE);  
  
c5.setFont(new Font("Raleway", Font.BOLD, 16));
```



```
c6 = new JCheckBox("E-Statement");
```

```
c6.setBackground(Color.WHITE);
```

```
c6.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
c7 = new JCheckBox("I hereby declares that the above entered details correct to th best of my knowledge.",true);
```

```
c7.setBackground(Color.WHITE);
```

```
c7.setFont(new Font("Raleway", Font.BOLD, 12));
```

```
r1 = new JRadioButton("Saving Account");
```

```
r1.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
r1.setBackground(Color.WHITE);
```

```
r2 = new JRadioButton("Fixed Deposit Account");
```

```
r2.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
r2.setBackground(Color.WHITE);
```

```
r3 = new JRadioButton("Current Account");
```

```
r3.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
r3.setBackground(Color.WHITE);
```

```
r4 = new JRadioButton("Recurring Deposit Account");
```

```
r4.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
r4.setBackground(Color.WHITE);
```

```
t1 = new JTextField();
```

```
t1.setFont(new Font("Raleway", Font.BOLD, 12));
```

```
setLayout(null);
```

```
l1.setBounds(700,10,70,30);
```

```
add(l1);
```

```
t1.setBounds(770,10,40,30);
```

```
add(t1);
```

```
l1.setBounds(280,50,400,40);
```

```
add(l1);
```

```
l2.setBounds(100,140,200,30);
```

```
add(l2);
```

```
r1.setBounds(100,180,150,30);
```

```
add(r1);
```

```
r2.setBounds(350,180,300,30);
```

```
add(r2);
```

```
r3.setBounds(100,220,250,30);
```

```
add(r3);
```

```
r4.setBounds(350,220,250,30);
```

```
add(r4);
```

```
l3.setBounds(100,300,200,30);
```

```
add(l3);
```

```
l4.setBounds(330,300,250,30);
```

```
add(l4);
```

```
l5.setBounds(100,330,200,20);
```

```
add(l5);
```

```
l6.setBounds(330,330,500,20);
```

add(l6);

l7.setBounds(100,370,200,30);

add(l7);

l8.setBounds(330,370,200,30);

add(l8);

l9.setBounds(100,400,200,20);

add(l9);

l10.setBounds(100,450,200,30);

add(l10);

c1.setBounds(100,500,200,30);

add(c1);

c2.setBounds(350,500,200,30);

add(c2);

c3.setBounds(100,550,200,30);

add(c3);

c4.setBounds(350,550,200,30);

add(c4);

c5.setBounds(100,600,200,30);

add(c5);

c6.setBounds(350,600,200,30);

add(c6);

c7.setBounds(100,680,200,20);

add(c7);

```
b1.setBounds(300,720,100,30);
```

```
add(b1);
```

```
b2.setBounds(420,720,100,30);
```

```
add(b2);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(850,850);
```

```
setLocation(500,90);
```

```
setVisible(true);
```

```
b1.addActionListener(this);
```

```
b2.addActionListener(this);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
String a = null;
```

```
if(r1.isSelected()){
```

```
    a = "Saving Account";
```

```
}
```

```
else if(r2.isSelected()){
```

```
    a = "Fixed Deposit Account";
```

```
}
```

```
else if(r3.isSelected()){
```

```
    a = "Current Account";
```

```
}else if(r4.isSelected()){
```

```
    a = "Recurring Deposit Account";
```

```
}
```

```
Random ran = new Random();
```

```
long first7 = (ran.nextLong() % 90000000L) + 5040936000000000L;
```

```
long first8 = Math.abs(first7);
```

```
long first3 = (ran.nextLong() % 9000L) + 1000L;
```

```
long first4 = Math.abs(first3);
```

```
String b = "";
```

```
if(c1.isSelected()){
```

```
    b = b+" ATM Card";
```

```
}
```

```
if(c2.isSelected()){
```

```
    b = b+" Internet Banking";
```

```
}
```

```
if(c3.isSelected()){
```

```
    b = b+" Mobile Banking";
```

```
}
```

```
if(c4.isSelected()){
```

```
    b = b+" EMAIL Alerts";
```

```
}
```

```
if(c5.isSelected()){
```

```
    b = b+" Cheque Book";
```

```
}
```

```
if(c6.isSelected()){
```

```
    b = b+" E-Statement";
```

```
}
```

```
String c = t1.getText();
```

```
try{
```

```
    if(ae.getSource()==b1){
```

```

        if(b.equals("")){

            JOptionPane.showMessageDialog(null, "Fill all the required fields");

        }else{

            conn c1 = new conn();

            String q1 = "insert into signup3 values('"+a+"','"+first8+"','"+first4+"','"+b+"','"+c+"')";

            String q2 = "insert into login values('"+first8+"','"+first4+"')";

            c1.s.executeUpdate(q1);

            c1.s.executeUpdate(q2);

            JOptionPane.showMessageDialog(null, "Card Number: " + first8 + "\n Pin:" + first4);

            new Deposit().setVisible(true);

            setVisible(false);

        }

    }else if(ae.getSource()==b2){

        System.exit(0);

    }

}

}catch(Exception ex){

    ex.printStackTrace();

}

}

public static void main(String[] args){

    new Signup3().setVisible(true);

}

}

```

LOGIN CLASS.

```
package ASimulatorSystem;
```

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
import javax.swing.*;
```

```
import java.sql.*;
```

```
public class Login extends JFrame implements ActionListener{
```

```
    JLabel l1,l2,l3;
```

```
    JTextField tf1;
```

```
    JPasswordField pf2;
```

```
    JButton b1,b2,b3;
```

```
    Login(){
```

```
        //Move the text to the center
```

```
        setFont(new Font("System", Font.BOLD, 22));
```

```
        Font f = getFont();
```

```
        FontMetrics fm = getFontMetrics(f);
```

```
        int x = fm.stringWidth("AUTOMATED TELLER MACHINE");
```

```
        int y = fm.stringWidth(" ");
```

```
        int z = getWidth() - x;
```

```
        int w = z/y;
```

```
String pad ="";

//for (int i=0; i!=w; i++) pad += " ";

pad = String.format("%"+w+"s", pad);

setTitle(pad+"AUTOMATED TELLER MACHINE");
```

```
l1 = new JLabel("WELCOME TO ATM");

l1.setFont(new Font("Oswald", Font.BOLD, 38));
```

```
l2 = new JLabel("Card No:");

l2.setFont(new Font("Raleway", Font.BOLD, 28));
```

```
l3 = new JLabel("PIN:");

l3.setFont(new Font("Raleway", Font.BOLD, 28));
```

```
tf1 = new JTextField(15);

pf2 = new JPasswordField(15);
```

```
b1 = new JButton("SIGN IN");

b1.setBackground(Color.BLACK);

b1.setForeground(Color.WHITE);
```

```
b2 = new JButton("CLEAR");

b2.setBackground(Color.BLACK);

b2.setForeground(Color.WHITE);
```

```
b3 = new JButton("SIGN UP");

b3.setBackground(Color.BLACK);

b3.setForeground(Color.WHITE);
```



```
setLayout(null);
```

```
l1.setBounds(175,50,450,200);
```

```
add(l1);
```

```
l2.setBounds(125,150,375,200);
```

```
add(l2);
```

```
tf1.setBounds(300,235,230,30);
```

```
add(tf1);
```

```
l3.setBounds(125,225,375,200);
```

```
add(l3);
```

```
tf1.setFont(new Font("Arial", Font.BOLD, 14));
```

```
pf2.setFont(new Font("Arial", Font.BOLD, 14));
```

```
pf2.setBounds(300,310,230,30);
```

```
add(pf2);
```

```
b1.setFont(new Font("Arial", Font.BOLD, 14));
```

```
b1.setBounds(300,400,100,30);
```

```
add(b1);
```

```
b2.setFont(new Font("Arial", Font.BOLD, 14));
```

```
b2.setBounds(430,400,100,30);
```

```
add(b2);
```

```
b3.setFont(new Font("Arial", Font.BOLD, 14));
```

```
b3.setBounds(300,450,230,30);
```

```
add(b3);
```

```

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);


getContentPane().setBackground(Color.WHITE);


setSize(750,750);

setLocation(500,200);

setVisible(true);


}

public void actionPerformed(ActionEvent ae){

    try{

        conn c1 = new conn();

        String a = tf1.getText();

        String b = pf2.getText();

        String q = "select * from login where cardno = '"+a+"' and pin = '"+b+"'";

        ResultSet rs = c1.s.executeQuery(q);

        if(ae.getSource()==b1){

            if(rs.next()){

                new Transcations().setVisible(true);

                setVisible(false);

            }else{

                JOptionPane.showMessageDialog(null, "Incorrect Card Number or Password");

            }

        }else if(ae.getSource()==b2){

            tf1.setText("");

            pf2.setText("");

```

```

        }else if(ae.getSource()==b3){

            new Signup().setVisible(true);

            setVisible(false);

        }

    }catch(Exception e){

        e.printStackTrace();

        System.out.println("error: "+e);

    }

}

public static void main(String[] args){

    new Login().setVisible(true);

}

}

```

DEPOSIT CLASS.

```
package ASimulatorSystem;
```

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
import javax.swing.*;

import java.sql.*;

import java.util.*;

public class Deposit extends JFrame implements ActionListener{

    JTextField t1,t2;

    JButton b1,b2,b3;

    JLabel l1,l2,l3;

    Deposit(){

        setFont(new Font("System", Font.BOLD, 22));

        Font f = getFont();

        FontMetrics fm = getFontMetrics(f);

        int x = fm.stringWidth("DEPOSIT");

        int y = fm.stringWidth(" ");

        int z = getWidth() - (5*x);

        int w = z/y;

        String pad = "";

        //for (int i=0; i!=w; i++) pad += " ";

        pad = String.format("%"+w+"s", pad);

        setTitle(pad+"DEPOSIT");

        l1 = new JLabel("ENTER AMOUNT YOU WANT");

        l1.setFont(new Font("System", Font.BOLD, 35));

        l2 = new JLabel("TO DEPOSIT");

        l2.setFont(new Font("System", Font.BOLD, 35));

        l3 = new JLabel("Enter Pin");

        l3.setFont(new Font("System", Font.BOLD, 14));
```

```
t1 = new JTextField();  
  
t1.setFont(new Font("Raleway", Font.BOLD, 22));
```

```
t2 = new JTextField();  
  
t2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b1 = new JButton("DEPOSIT");  
  
b1.setFont(new Font("System", Font.BOLD, 18));  
  
b1.setBackground(Color.BLACK);  
  
b1.setForeground(Color.WHITE);
```

```
b2 = new JButton("BACK");  
  
b2.setFont(new Font("System", Font.BOLD, 18));  
  
b2.setBackground(Color.BLACK);  
  
b2.setForeground(Color.WHITE);
```

```
b3 = new JButton("EXIT");  
  
b3.setFont(new Font("System", Font.BOLD, 18));  
  
b3.setBackground(Color.BLACK);  
  
b3.setForeground(Color.WHITE);
```

```
setLayout(null);
```

```
l3.setBounds(620,10,80,30);  
  
add(l3);
```

```
t2.setBounds(700,10,40,30);  
  
add(t2);
```

```
l1.setBounds(150,150,800,60);  
  
add(l1);
```

```
l2.setBounds(290,210,800,60);
```

```
add(t2);
```

```
t1.setBounds(250,300,300,50);
```

```
add(t1);
```

```
b1.setBounds(260,380,125,50);
```

```
add(b1);
```

```
b2.setBounds(415,380,125,50);
```

```
add(b2);
```

```
b3.setBounds(300,550,200,50);
```

```
add(b3);
```

```
b1.addActionListener(this);
```

```
b2.addActionListener(this);
```

```
b3.addActionListener(this);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(800,800);
```

```
setLocation(500,90);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
try{
```

```
String a = t1.getText();
```

```
String b = t2.getText();
```

```

if(ae.getSource()==b1){

    if(t1.getText().equals("")){

        JOptionPane.showMessageDialog(null, "Please enter the Amount to you want to Deposit");

    }else{

        conn c1 = new conn();

        ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+b+" '");

        double balance = 0;

        if(rs.next()){

            String pin = rs.getString("pin");

            balance = rs.getDouble("balance");

            double d = Double.parseDouble(a);

            balance+=d;

            String q1= "insert into bank values('"+pin+"','"+d+"',null,'"+balance+"')";

            c1.s.executeUpdate(q1);

        }

        JOptionPane.showMessageDialog(null, "Rs. "+a+" Deposited Successfully");

        new Transcations().setVisible(true);

        setVisible(false);

```

```

    }

    }else if(ae.getSource()==b2){

        new Transcations().setVisible(true);

        setVisible(false);

    }else if(ae.getSource()==b3){

        System.exit(0);

    }

}catch(Exception e){

    e.printStackTrace();

    System.out.println("error: "+e);

}

}

public static void main(String[] args){

    new Deposit().setVisible(true);

}

}

```


WITHDRAWAL CLASS-

```
package ASimulatorSystem;

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

public class Withdrawal extends JFrame implements ActionListener{

    JTextField t1,t2;

    JButton b1,b2,b3;

    JLabel l1,l2,l3,l4;

    Withdrawal(){

        setFont(new Font("System", Font.BOLD, 22));

        Font f = getFont();

        FontMetrics fm = getFontMetrics(f);

        int x = fm.stringWidth("WITHDRAWAL");

        int y = fm.stringWidth(" ");

        int z = getWidth() - (3*x);

        int w = z/y;

        String pad = "";

        //for (int i=0; i!=w; i++) pad += " ";

        pad = String.format("%"+w+"s", pad);

        setTitle(pad+"WITHDRAWAL");
```

```
l1 = new JLabel("MAXIMUM DAILY WITHDRAWAL");
```

```
l1.setFont(new Font("System", Font.BOLD, 40));
```

```
l2 = new JLabel("IS RS.10,000");
```

```
l2.setFont(new Font("System", Font.BOLD, 40));
```

```
l3 = new JLabel("PLEASE ENTER YOUR AMOUNT");
```

```
l3.setFont(new Font("System", Font.BOLD, 35));
```

```
l4 = new JLabel("Enter Pin");
```

```
l4.setFont(new Font("System", Font.BOLD, 14));
```

```
t1 = new JTextField();
```

```
t1.setFont(new Font("Raleway", Font.BOLD, 22));
```

```
t2 = new JTextField();
```

```
t2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b1 = new JButton("WITHDRAW");
```

```
b1.setFont(new Font("System", Font.BOLD, 18));
```

```
b1.setBackground(Color.BLACK);
```

```
b1.setForeground(Color.WHITE);
```

```
b2 = new JButton("BACK");
```

```
b2.setFont(new Font("System", Font.BOLD, 18));
```

```
b2.setBackground(Color.BLACK);
```

```
b2.setForeground(Color.WHITE);
```

```
b3 = new JButton("EXIT");
```

```
b3.setFont(new Font("System", Font.BOLD, 18));
```

```
b3.setBackground(Color.BLACK);
```

```
b3.setForeground(Color.WHITE);
```

```
setLayout(null);
```

```
l4.setBounds(620,10,80,30);
```

```
add(l4);
```

```
t2.setBounds(700,10,40,30);
```

```
add(t2);
```

```
l1.setBounds(90,100,800,60);
```

```
add(l1);
```

```
l2.setBounds(270,160,800,60);
```

```
add(l2);
```

```
l3.setBounds(120,260,800,60);
```

```
add(l3);
```

```
t1.setBounds(210,340,360,50);
```

```
add(t1);
```

```
b1.setBounds(220,400,160,50);
```

```
add(b1);
```

```
b2.setBounds(400,400,160,50);
```

```
add(b2);
```

```
b3.setBounds(300,550,200,50);
```

```
add(b3);
```

```
b1.addActionListener(this);
```

```
b2.addActionListener(this);
```

```
b3.addActionListener(this);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(800,800);
```

```
setLocation(500,90);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
try{
```

```
String a = t1.getText();
```

```
String b = t2.getText();
```

```
if(ae.getSource()==b1){
```

```
if(t1.getText().equals("")){
```

```
JOptionPane.showMessageDialog(null, "Please enter the Amount to you want to Withdraw");
```

```
}else{
```

```
conn c1 = new conn();
```

```
ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+b+"' ");
```

```

double balance = 0;

if(rs.next()){

    String pin = rs.getString("pin");

    balance = rs.getDouble("balance");

    double d = Double.parseDouble(a);

    balance-=d;

    String q1= "insert into bank values('"+pin+"',null,'"+d+"','"+balance+"')";

    c1.s.executeUpdate(q1);

}

JOptionPane.showMessageDialog(null, "Rs. "+a+" Debited Successfully");

new Transcations().setVisible(true);

setVisible(false);

}

}else if(ae.getSource()==b2){

    new Transcations().setVisible(true);

    setVisible(false);

}else if(ae.getSource()==b3){

    System.exit(0);

}

```

```

        }catch(Exception e){

            e.printStackTrace();

            System.out.println("error: "+e);

        }

    }

}

public static void main(String[] args){

    new Withdrawl().setVisible(true);

}

}

```

TRANSACTION CLASS.

```

package ASimulatorSystem;

import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

import java.sql.*;

import java.util.logging.Level;

import java.util.logging.Logger;

public class Transcations extends JFrame implements ActionListener{

    JLabel l1;

    JButton b1,b2,b3,b4,b5,b6,b7;

```

```
Transactions(){

    setFont(new Font("System", Font.BOLD, 22));

    Font f = getFont();

    FontMetrics fm = getFontMetrics(f);

    int x = fm.stringWidth("TRANSACTION");

    int y = fm.stringWidth(" ");

    int z = getWidth() - (3*x);

    int w = z/y;

    String pad = "";

    //for (int i=0; i!=w; i++) pad += " ";

    pad = String.format("%"+w+"s", pad);

    setTitle(pad+"TRANSACTION");


    l1 = new JLabel("Please Select Your Transaction");

    l1.setFont(new Font("System", Font.BOLD, 38));


    b1 = new JButton("DEPOSIT");

    b1.setFont(new Font("System", Font.BOLD, 18));

    b1.setBackground(Color.BLACK);

    b1.setForeground(Color.WHITE);


    b2 = new JButton("CASH WITHDRAWAL");

    b2.setFont(new Font("System", Font.BOLD, 18));

    b2.setBackground(Color.BLACK);

    b2.setForeground(Color.WHITE);


    b3 = new JButton("FAST CASH");

    b3.setFont(new Font("System", Font.BOLD, 18));

    b3.setBackground(Color.BLACK);

    b3.setForeground(Color.WHITE);


    b4 = new JButton("MINI STATEMENT");
```

```
b4.setFont(new Font("System", Font.BOLD, 18));
```

```
b4.setBackground(Color.BLACK);
```

```
b4.setForeground(Color.WHITE);
```

```
b5 = new JButton("PIN CHANGE");
```

```
b5.setFont(new Font("System", Font.BOLD, 18));
```

```
b5.setBackground(Color.BLACK);
```

```
b5.setForeground(Color.WHITE);
```

```
b6 = new JButton("BALANCE ENQUIRY");
```

```
b6.setFont(new Font("System", Font.BOLD, 18));
```

```
b6.setBackground(Color.BLACK);
```

```
b6.setForeground(Color.WHITE);
```

```
b7 = new JButton("EXIT");
```

```
b7.setFont(new Font("System", Font.BOLD, 18));
```

```
b7.setBackground(Color.BLACK);
```

```
b7.setForeground(Color.WHITE);
```

```
setLayout(null);
```

```
l1.setBounds(100,100,700,40);
```

```
add(l1);
```

```
b1.setBounds(40,250,300,60);
```

```
add(b1);
```

```
b2.setBounds(440,250,300,60);
```

```
add(b2);
```

```
b3.setBounds(40,360,300,60);
```

```
add(b3);
```



```
b4.setBounds(440,360,300,60);
```

```
add(b4);
```

```
b5.setBounds(40,470,300,60);
```

```
add(b5);
```

```
b6.setBounds(440,470,300,60);
```

```
add(b6);
```

```
b7.setBounds(240,600,300,60);
```

```
add(b7);
```

```
b1.addActionListener(this);
```

```
b2.addActionListener(this);
```

```
b3.addActionListener(this);
```

```
b4.addActionListener(this);
```

```
b5.addActionListener(this);
```

```
b6.addActionListener(this);
```

```
b7.addActionListener(this);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(800,800);
```

```
setLocation(500,90);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
if(ae.getSource()==b1){

    new Deposit().setVisible(true);

    setVisible(false);

}

else if(ae.getSource()==b2){

    new Withdrawl().setVisible(true);

    setVisible(false);

}

else if(ae.getSource()==b3){

    new FastCash().setVisible(true);

    setVisible(false);

}else if(ae.getSource()==b4){

    new MiniStatement().setVisible(true);

    setVisible(false);

}else if(ae.getSource()==b5){

    new Pin().setVisible(true);

    setVisible(false);

}else if(ae.getSource()==b6){

    String pinn = JOptionPane.showInputDialog("Enter PIN");

    conn c1 = new conn();

    try {
```

```

        ResultSet rs = c1.s.executeQuery(" SELECT balance FROM bank ORDER BY pin = '"+pinn+"' DESC LIMIT 1");

        if(rs.next()){

            String balance = rs.getString("balance");

            JOptionPane.showMessageDialog(null,"Your Account Balance is "+balance);

        }

    } catch (Exception e) {

        e.printStackTrace();

    }

}

}else if(ae.getSource()==b7){

    System.exit(0);

}

}

public static void main(String[] args){

    new Transcations().setVisible(true);

}

}

```

FASTCASH CLASS.

```
package ASimulatorSystem;
```

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
import javax.swing.*;
```

```
import java.sql.*;
```

```
import java.util.*;
```

```
public class FastCash extends JFrame implements ActionListener{
```

```
    JLabel l1,l2;
```

```
    JButton b1,b2,b3,b4,b5,b6,b7,b8;
```

```
    JTextField t1;
```

```
    FastCash(){
```

```
        setFont(new Font("System", Font.BOLD, 22));
```

```
        Font f = getFont();
```

```
        FontMetrics fm = getFontMetrics(f);
```

```
        int x = fm.stringWidth("FAST CASH");
```

```
        int y = fm.stringWidth(" ");
```

```
        int z = getWidth() - (4*x);
```

```
        int w = z/y;
```

```
        String pad = "";
```

```
        //for (int i=0; i!=w; i++) pad += " ";
```

```
        pad = String.format("%"+w+"s", pad);
```

```
        setTitle(pad+"FAST CASH");
```

```
        l1 = new JLabel("SELECT WITHDRAWAL AMOUNT");
```

```
        l1.setFont(new Font("System", Font.BOLD, 38));
```

```
l2 = new JLabel("Enter PIN");  
  
l2.setFont(new Font("System", Font.BOLD, 13));
```

```
t1 = new JTextField();  
  
t1.setFont(new Font("System", Font.BOLD, 13));
```

```
b1 = new JButton("Rs 100");  
  
b1.setFont(new Font("System", Font.BOLD, 18));  
  
b1.setBackground(Color.BLACK);  
  
b1.setForeground(Color.WHITE);
```

```
b2 = new JButton("Rs 500");  
  
b2.setFont(new Font("System", Font.BOLD, 18));  
  
b2.setBackground(Color.BLACK);  
  
b2.setForeground(Color.WHITE);
```

```
b3 = new JButton("Rs 1000");  
  
b3.setFont(new Font("System", Font.BOLD, 18));  
  
b3.setBackground(Color.BLACK);  
  
b3.setForeground(Color.WHITE);
```

```
b4 = new JButton("Rs 2000");  
  
b4.setFont(new Font("System", Font.BOLD, 18));  
  
b4.setBackground(Color.BLACK);  
  
b4.setForeground(Color.WHITE);
```

```
b5 = new JButton("Rs 5000");  
  
b5.setFont(new Font("System", Font.BOLD, 18));  
  
b5.setBackground(Color.BLACK);  
  
b5.setForeground(Color.WHITE);
```

```
b6 = new JButton("Rs 10000");  
  
b6.setFont(new Font("System", Font.BOLD, 18));
```

```
b6.setBackground(Color.BLACK);
```

```
b6.setForeground(Color.WHITE);
```

```
b7 = new JButton("BACK");
```

```
b7.setFont(new Font("System", Font.BOLD, 18));
```

```
b7.setBackground(Color.BLACK);
```

```
b7.setForeground(Color.WHITE);
```

```
b7 = new JButton("EXIT");
```

```
b7.setFont(new Font("System", Font.BOLD, 18));
```

```
b7.setBackground(Color.BLACK);
```

```
b7.setForeground(Color.WHITE);
```

```
setLayout(null);
```

```
l2.setBounds(640,10,60,40);
```

```
add(l2);
```

```
t1.setBounds(710,10,60,40);
```

```
add(t1);
```

```
l1.setBounds(100,100,700,40);
```

```
add(l1);
```

```
b1.setBounds(40,250,300,60);
```

```
add(b1);
```

```
b2.setBounds(440,250,300,60);
```

```
add(b2);
```

```
b3.setBounds(40,360,300,60);
```

```
add(b3);
```

```
b4.setBounds(440,360,300,60);
```

```
add(b4);
```

```
b5.setBounds(40,470,300,60);
```

```
add(b5);
```

```
b6.setBounds(440,470,300,60);
```

```
add(b6);
```

```
b7.setBounds(240,600,300,60);
```

```
add(b7);
```

```
b1.addActionListener(this);
```

```
b2.addActionListener(this);
```

```
b3.addActionListener(this);
```

```
b4.addActionListener(this);
```

```
b5.addActionListener(this);
```

```
b6.addActionListener(this);
```

```
b7.addActionListener(this);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(800,800);
```

```
setLocation(500,90);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```

try{

String a = t1.getText();

double balance = 0;

if(ae.getSource()==b1){

    conn c1 = new conn();

    ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+a+"' ");

    if(rs.next()){

        String pin = rs.getString("pin");

        balance = rs.getDouble("balance");

        balance-=100;

        String q1= "insert into bank values('"+pin+"',null,100,'"+balance+"')";

        c1.s.executeUpdate(q1);

    }

    JOptionPane.showMessageDialog(null, "Rs. "+100+" Debited Successfully");

    new Transcations().setVisible(true);

    setVisible(false);

}

```



```

else if(ae.getSource()==b2){

    conn c1 = new conn();

    ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+a+"' ");

    if(rs.next()){

        String pin = rs.getString("pin");

        balance = rs.getDouble("balance");

        balance-=500;

        String q1= "insert into bank values('"+pin+"',null,500,'"+balance+"')";

        c1.s.executeUpdate(q1);

    }

    JOptionPane.showMessageDialog(null, "Rs. "+500+" Debited Successfully");

    new Transcations().setVisible(true);

    setVisible(false);

}

else if(ae.getSource()==b3){

    conn c1 = new conn();

```

```

ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+a+"' ");

if(rs.next()){

    String pin = rs.getString("pin");

    balance = rs.getDouble("balance");

    balance-=1000;

    String q1= "insert into bank values('"+pin+"',null,1000,'"+balance+"')";

    c1.s.executeUpdate(q1);

}

JOptionPane.showMessageDialog(null, "Rs. "+1000+" Debited Successfully");

new Transcations().setVisible(true);

setVisible(false);

}

else if(ae.getSource()==b4){

    conn c1 = new conn();

    ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+a+"' ");

    if(rs.next()){

        String pin = rs.getString("pin");

```

```

        balance = rs.getDouble("balance");

        balance-=2000;

        String q1= "insert into bank values('"+pin+"',null,2000,'"+balance+"')";

        c1.s.executeUpdate(q1);

    }

    JOptionPane.showMessageDialog(null, "Rs. "+2000+" Debited Successfully");

    new Transcations().setVisible(true);

    setVisible(false);

}

else if(ae.getSource()==b5){

    conn c1 = new conn();

    ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+a+" '");

    if(rs.next()){

        String pin = rs.getString("pin");

        balance = rs.getDouble("balance");

        balance-=5000;

        String q1= "insert into bank values('"+pin+"',null,5000,'"+balance+"')";

        c1.s.executeUpdate(q1);

```

```
}
```

```
JOptionPane.showMessageDialog(null, "Rs. "+5000+" Debited Successfully");
```

```
new Transactions().setVisible(true);
```

```
setVisible(false);
```

```
}
```

```
else if(ae.getSource()==b6){
```

```
conn c1 = new conn();
```

```
ResultSet rs = c1.s.executeQuery(" select * from bank where pin = '"+a+"' ");
```

```
if(rs.next()){
```

```
String pin = rs.getString("pin");
```

```
balance = rs.getDouble("balance");
```

```
balance-=10000;
```

```
String q1="insert into bank values('"+pin+"',null,10000,'"+balance+"')";
```

```
c1.s.executeUpdate(q1);
```

```
}
```

```
JOptionPane.showMessageDialog(null, "Rs. "+10000+" Debited Successfully");
```

```

        new Transcations().setVisible(true);

        setVisible(false);

    }

    else if(ae.getSource()==b7){

        System.exit(0);

    }

}catch(Exception e){

    e.printStackTrace();

    System.out.println("error: "+e);

}

}

public static void main(String[] args){

    new FastCash().setVisible(true);

}

}

```

MINI STATEMENT CLASS-

```
package ASimulatorSystem;
```

```

import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

import java.sql.*;

public class MiniStatement extends JFrame implements ActionListener{

    JTable t1;

    JButton b1;

    String x[] = {"Customer Name","Date","Deposit","Withdraw","Balance"};

    String y[][] = new String[20][5];

    int i=0, j=0;

    MiniStatement(){

        super("Mini Statement");

        setSize(1200,650);

        setLocation(200,200);

        try{

            conn c1 = new conn();

            String s1 = "select * from bank";

            ResultSet rs = c1.s.executeQuery(s1);

            while(rs.next()){

                y[i][j++]=rs.getString("customer_name");

                y[i][j++]=rs.getString("date");

                y[i][j++]=rs.getString("deposit");

                y[i][j++]=rs.getString("withdraw");

                y[i][j++]=rs.getString("balance");

                i++;

                j=0;

            }

            t1 = new JTable(y,x);

        }catch(Exception e){

            e.printStackTrace();

```

```

    }

    b1 = new JButton("Print");

    add(b1,"South");

    JScrollPane sp = new JScrollPane(t1);

    add(sp);

    b1.addActionListener(this);

}

public void actionPerformed(ActionEvent ae){

    try{

        t1.print();

    }catch(Exception e){}

}

public static void main(String[] args){

    new MiniStatement().setVisible(true);

}

```

PIN CHANGE CLASS.

```

package ASimulatorSystem;

import java.awt.*;

import java.awt.event.*;

import javax.swing.*;

import java.sql.*;

public class Pin extends JFrame implements ActionListener{

    JPasswordField t1,t2,t3;

    JButton b1,b2;

    JLabel l1,l2,l3,l4;

    Pin(){

        setFont(new Font("System", Font.BOLD, 22));
    }
}

```

```
Font f = getFont();

FontMetrics fm = getFontMetrics(f);

int x = fm.stringWidth("PIN CHANGE");

int y = fm.stringWidth(" ");

int z = getWidth() - (3*x);

int w = z/y;

String pad = "";

//for (int i=0; i!=w; i++) pad += " ";

pad = String.format("%"+w+"s", pad);

setTitle(pad+"PIN CHANGE");


I1 = new JLabel("CHANGE YOUR PIN");

I1.setFont(new Font("System", Font.BOLD, 35));


I2 = new JLabel("Current PIN:");

I2.setFont(new Font("System", Font.BOLD, 22));


I3 = new JLabel("New PIN:");

I3.setFont(new Font("System", Font.BOLD, 22));


I4 = new JLabel("Re-Enter New PIN:");

I4.setFont(new Font("System", Font.BOLD, 22));


t1 = new JPasswordField();

t1.setFont(new Font("Raleway", Font.BOLD, 22));


t2 = new JPasswordField();

t2.setFont(new Font("Raleway", Font.BOLD, 22));


t3 = new JPasswordField();

t3.setFont(new Font("Raleway", Font.BOLD, 22));


b1 = new JButton("SAVE");
```



```
b1.setFont(new Font("System", Font.BOLD, 18));
```

```
b1.setBackground(Color.BLACK);
```

```
b1.setForeground(Color.WHITE);
```

```
b2 = new JButton("BACK");
```

```
b2.setFont(new Font("System", Font.BOLD, 18));
```

```
b2.setBackground(Color.BLACK);
```

```
b2.setForeground(Color.WHITE);
```

```
b1.addActionListener(this);
```

```
b2.addActionListener(this);
```

```
setLayout(null);
```

```
l1.setBounds(220,130,800,60);
```

```
add(l1);
```

```
l2.setBounds(100,240,150,40);
```

```
add(l2);
```

```
l3.setBounds(100,300,150,40);
```

```
add(l3);
```

```
l4.setBounds(100,360,200,40);
```

```
add(l4);
```

```
t1.setBounds(310,240,360,40);
```

```
add(t1);
```

```
t2.setBounds(310,300,360,40);
```

```
add(t2);
```

```
t3.setBounds(310,360,360,40);
```

```
add(t3);
```

```
b1.setBounds(220,460,160,50);
```

```
add(b1);
```

```
b2.setBounds(400,460,160,50);
```

```
add(b2);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(800,800);
```

```
setLocation(500,90);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
try{
```

```
String a = t1.getText();
```

```
String b = t2.getText();
```

```
String c = t3.getText();
```

```
if(ae.getSource()==b1){
```

```
if(t1.getText().equals("")){
```

```
JOptionPane.showMessageDialog(null, "Please Enter Current PIN");
```

```

    }

    if(t2.getText().equals("")){

        JOptionPane.showMessageDialog(null, "Enter New PIN");

    }

    if (t3.getText().equals("")){

        JOptionPane.showMessageDialog(null, "Re-Enter new PIN");

    }

    if(t2.getText().equals(t3.getText())){

        conn c1 = new conn();

        String q1 = "update bank set pin = '"+b+"' where pin = '"+a+"' ";

        String q2 = "update login set pin = '"+b+"' where pin = '"+a+"' ";

        String q3 = "update signup3 set pin = '"+b+"' where pin = '"+a+"' ";

        c1.s.executeUpdate(q1);

        c1.s.executeUpdate(q2);

        c1.s.executeUpdate(q3);

        JOptionPane.showMessageDialog(null, "PIN changed successfully");

        new Transcations().setVisible(true);

        setVisible(false);

    }else{

        JOptionPane.showMessageDialog(null, "PIN entered doesn't match");

    }

```

```
    }else if(ae.getSource()==b2){

        new Transcations().setVisible(true);

        setVisible(false);

    }

}catch(Exception e){

    e.printStackTrace();

    System.out.println("error: "+e);

}

}

public static void main(String[] args){


    new Pin().setVisible(true);

}

}
```

OUTPUT-

LOGIN PAGE-

 Automated Teller Machine

—

□

×

Welcome To ATM

Card NO :

PIN :

Sign In

SIGN UP

SIGNUP PAGE 1-

p2.jar New Account Application Form

Application Form no.4038

Page 1:Personal Details

Name:

Fathers's Name:

Date of Birth: Date Month Year

Gender: ☒ Male ☐ Female

Email Address:

Address:

City:

Pin Code:

State:

Next

SIGNUP PAGE 2-

Form No: **Page 2: Additional Details**Religion: ▼Category: ▼Income: ▼Educational Qualification: ▼Occupation: ▼PAN Number: Aadhar Number: Senior Citizen: ☐ Yes ☒ NoExisting Account: ☐ Yes ☒ No**Next**

SIGNUP PAGE 3-

New Account Application Form - 3

Form NO: 4038

Page 3: Account Details

Account Type:

☒ Savings Account ☐ Fixed Deposit Account

☐ Current Account ☐ Reccuring Deposit Account

Phone number:

Card Number:
(Your 16-digit Card Number)

PIN:
(4-Digit password)

Services Required:

☒ ATM Card ☐ Internet Banking


☒ Mobile Banking ☐ Email Alerts

☐ Cheque Book ☐ E-Statement

☒ I hereby declare that the above entered details are correct.

XXXX-XXXX-XXXX-4184

Message

 Card Number: 5040935964577394
Pin: 4472

TRANSACTION PAGE-

Please Select Your Transaction

DEPOSIT

CASH WITHDRAWAL

FAST CASH


MINI STATEMENT

PIN CHANGE

BALANCE ENQUIRY

EXIT

DEPOSIT PAGE-

 Deposit

—

□

×

Enter Pin

ENTER AMOUNT YOU WANT
TO DEPOSIT

DEPOSIT

BACK

EXIT

CASH WITHDRAWAL-

Extra

Withdraw

Enter Pin

MAXIMUM DAILY WITHDRAWAL
IS RS.10,000

PLEASE ENTER YOUR AMOUNT

WITHDRAW

BACK

EXIT

FAST CASH PAGE-

Fast Cash

Enter PIN

SELECT WITHDRAWAL AMOUNT

Rs 100

Rs 500

Rs 1000

Rs 2000


Rs 5000

Rs 10000

EXIT

MINI STATEMENT PAGE-

[illegible]**PIN CHANGE PAGE-**

 Pin Change

—

□

×

CHANGE YOUR PIN

CURRENT PIN :

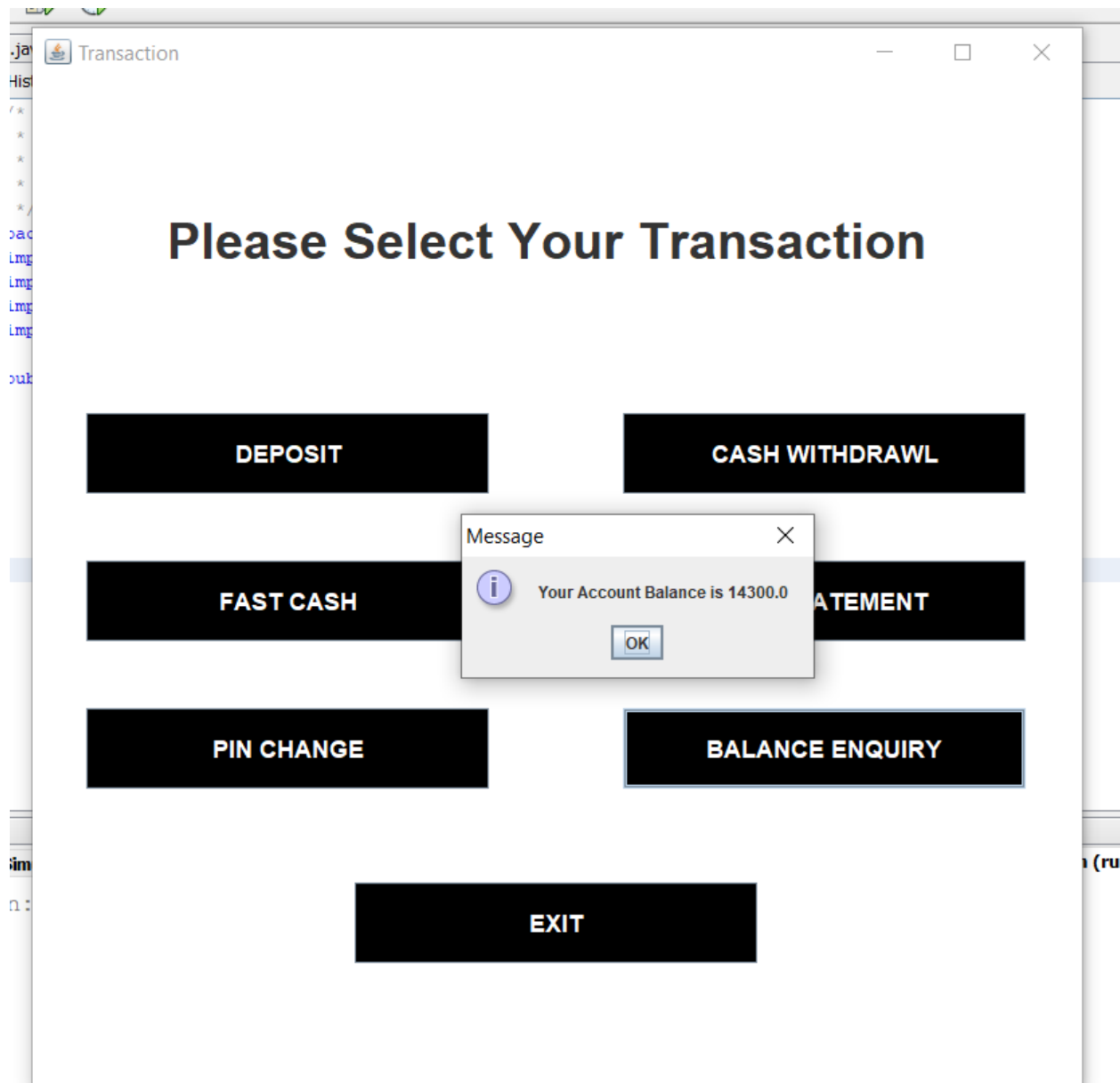
NEW PIN :

RE-ENTER NEW PIN :

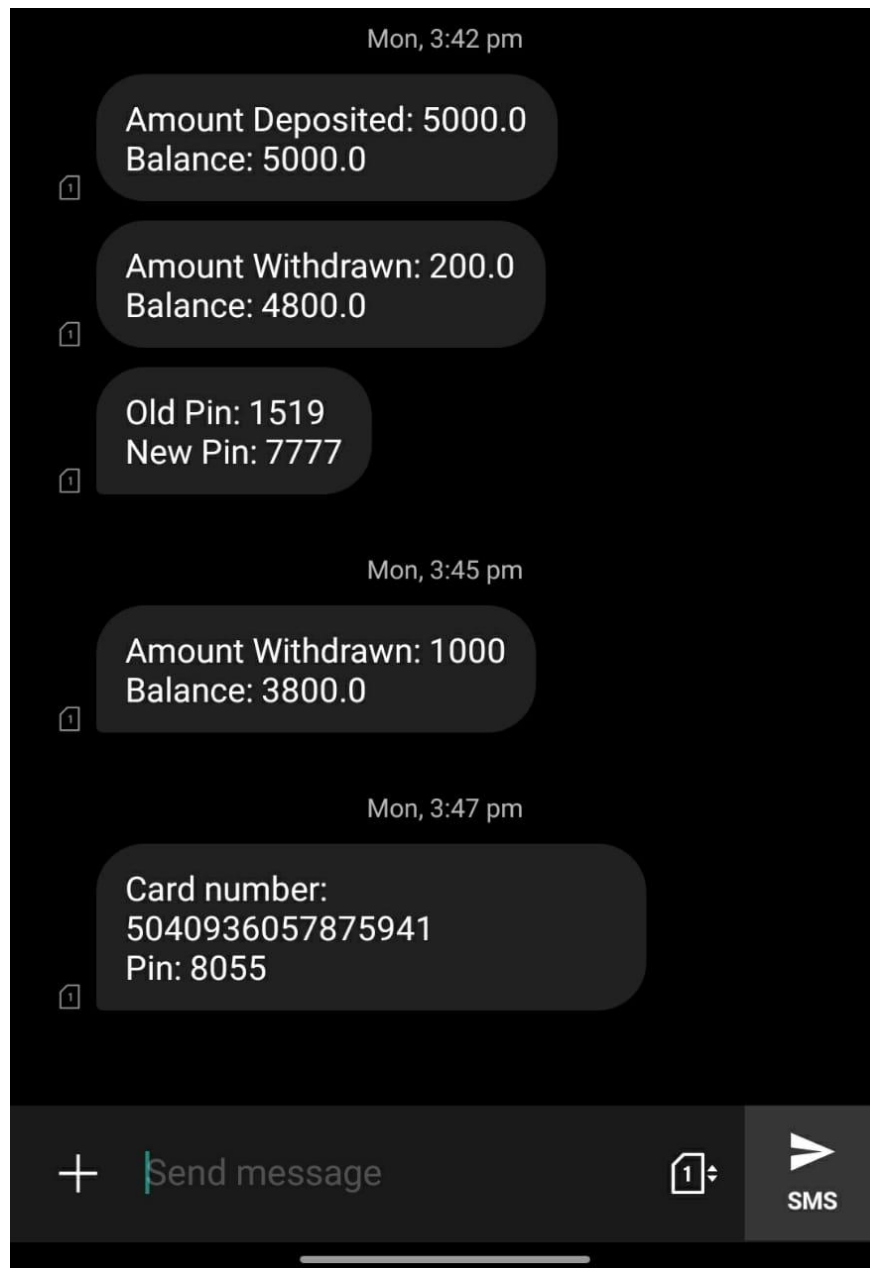
SAVE

BACK

BANK ENQUIRY PAGE-



MOBILE ALERT-



DATABASE-

```
c:\wamp64\bin\mariadb\mariadb10.4.10\bin\mysql.exe

MariaDB [project1]> select * from bank;
+----+-----+-----+-----+-----+-----+-----+
| pin | deposit | withdraw | balance | Phnno | created_at | name |
+----+-----+-----+-----+-----+-----+-----+
| 4472 | 8000.0 | NULL | 10000.0 | 917030374404 | 2020-05-20 20:15:53 | Vedant Gampawar |
| 4472 | 2000.0 | NULL | 2000.0 | 917030374404 | 2020-05-20 20:15:27 | Vedant Gampawar |
| 4472 | 0 | 0 | 0 | 917030374404 | 2020-05-20 20:12:24 | Vedant Gampawar |
+----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)

MariaDB [project1]> select * from bank;
+----+-----+-----+-----+-----+-----+-----+
| pin | deposit | withdraw | balance | Phnno | created_at | name |
+----+-----+-----+-----+-----+-----+-----+
| 4472 | NULL | 4700.0 | 5300.0 | 917030374404 | 2020-05-20 20:16:59 | Vedant Gampawar |
| 4472 | 8000.0 | NULL | 10000.0 | 917030374404 | 2020-05-20 20:15:53 | Vedant Gampawar |
| 4472 | 2000.0 | NULL | 2000.0 | 917030374404 | 2020-05-20 20:15:27 | Vedant Gampawar |
| 4472 | 0 | 0 | 0 | 917030374404 | 2020-05-20 20:12:24 | Vedant Gampawar |
| 4472 | 10000.0 | NULL | 15300.0 | 917030374404 | 2020-05-20 20:17:23 | Vedant Gampawar |
+----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [project1]> select * from bank;
+----+-----+-----+-----+-----+-----+-----+
| pin | deposit | withdraw | balance | Phnno | created_at | name |
+----+-----+-----+-----+-----+-----+-----+
| 4472 | NULL | 4700.0 | 5300.0 | 917030374404 | 2020-05-20 20:16:59 | Vedant Gampawar |
| 4472 | 8000.0 | NULL | 10000.0 | 917030374404 | 2020-05-20 20:15:53 | Vedant Gampawar |
| 4472 | 2000.0 | NULL | 2000.0 | 917030374404 | 2020-05-20 20:15:27 | Vedant Gampawar |
| 4472 | 0 | 0 | 0 | 917030374404 | 2020-05-20 20:12:24 | Vedant Gampawar |
| 4472 | 10000.0 | NULL | 15300.0 | 917030374404 | 2020-05-20 20:17:23 | Vedant Gampawar |
| 4472 | 10000.0 | NULL | 15300.0 | 917030374404 | 2020-05-20 20:17:23 | Vedant Gampawar |
+----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [project1]> select * from bank;
+----+-----+-----+-----+-----+-----+-----+
| pin | deposit | withdraw | balance | Phnno | created_at | name |
+----+-----+-----+-----+-----+-----+-----+
| 4472 | NULL | 4700.0 | 5300.0 | 917030374404 | 2020-05-20 20:16:59 | Vedant Gampawar |
| 4472 | 8000.0 | NULL | 10000.0 | 917030374404 | 2020-05-20 20:15:53 | Vedant Gampawar |
| 4472 | 2000.0 | NULL | 2000.0 | 917030374404 | 2020-05-20 20:15:27 | Vedant Gampawar |
| 4472 | 0 | 0 | 0 | 917030374404 | 2020-05-20 20:12:24 | Vedant Gampawar |
| 4472 | 10000.0 | NULL | 15300.0 | 917030374404 | 2020-05-20 20:17:23 | Vedant Gampawar |
| 4472 | NULL | 1000 | 14300.0 | 917030374404 | 2020-05-20 20:17:45 | Vedant Gampawar |
+----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [project1]>
```

```
c:\wamp64\bin\mariadb\mariadb10.4.10\bin\mysql.exe

6 rows in set (0.000 sec)

MariaDB [project1]> select * from bank;
+----+-----+-----+-----+-----+-----+-----+
| pin | deposit | withdraw | balance | Phnno | created_at | name |
+----+-----+-----+-----+-----+-----+-----+
| 7575 | NULL | 4700.0 | 5300.0 | 917030374404 | 2020-05-20 20:16:59 | Vedant Gampawar |
| 7575 | 8000.0 | NULL | 10000.0 | 917030374404 | 2020-05-20 20:15:53 | Vedant Gampawar |
| 7575 | 2000.0 | NULL | 2000.0 | 917030374404 | 2020-05-20 20:15:27 | Vedant Gampawar |
| 7575 | 0 | 0 | 0 | 917030374404 | 2020-05-20 20:12:24 | Vedant Gampawar |
| 7575 | 10000.0 | NULL | 15300.0 | 917030374404 | 2020-05-20 20:17:23 | Vedant Gampawar |
| 7575 | NULL | 1000 | 14300.0 | 917030374404 | 2020-05-20 20:17:45 | Vedant Gampawar |
+----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [project1]> select * from signup3;
+-----+-----+-----+-----+-----+-----+
| Ac_type | cardno | pin | Services | Form_no | Phnno |
+-----+-----+-----+-----+-----+-----+
| Savings Account | 5040935964577394 | 7575 | ATM Card Mobile Banking | 4038 | 917030374404 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

ERROR: No query specified

MariaDB [project1]> select * from login;
+-----+-----+
| cardno | pin |
+-----+-----+
| 5040935964577394 | 7575 |
| 504093609113202 | 6761 |
| 504093609683782 | 7777 |
| 5040935940002472 | 4340 |
+-----+-----+
4 rows in set (0.000 sec)

MariaDB [project1]>
```

```
c:\wamp64\bin\mariadb\mariadb10.4.10\bin\mysql.exe

+-----+-----+-----+-----+-----+-----+-----+
| pin | deposit | withdraw | balance | Phno | created_at | name |
+-----+-----+-----+-----+-----+-----+-----+
| 7575 | NULL | 4700.0 | 5300.0 | 917030374404 | 2020-05-20 20:16:59 | Vedant Gampawar |
| 7575 | 8000.0 | NULL | 10000.0 | 917030374404 | 2020-05-20 20:15:53 | Vedant Gampawar |
| 7575 | 2000.0 | NULL | 2000.0 | 917030374404 | 2020-05-20 20:15:27 | Vedant Gampawar |
| 7575 | 0 | 0 | 0 | 917030374404 | 2020-05-20 20:12:24 | Vedant Gampawar |
| 7575 | 10000.0 | NULL | 15300.0 | 917030374404 | 2020-05-20 20:17:23 | Vedant Gampawar |
| 7575 | NULL | 1000 | 14300.0 | 917030374404 | 2020-05-20 20:17:45 | Vedant Gampawar |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [project1]> select * from signup3;

+-----+-----+-----+-----+-----+-----+
| Ac_type | cardno | pin | Services | Form_no | Phno |
+-----+-----+-----+-----+-----+-----+
| Savings Account | 5040935964577394 | 7575 | ATM Card Mobile Banking | 4038 | 917030374404 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

ERROR: No query specified

MariaDB [project1]> select * from login;

+-----+-----+
| cardno | pin |
+-----+-----+
| 5040935964577394 | 7575 |
| 5040936039113202 | 6761 |
| 5040936039683782 | 7777 |
| 5040935940002472 | 4340 |
+-----+-----+
4 rows in set (0.000 sec)

MariaDB [project1]> select * from signup;

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| name | fname | date | month | year | gender | email | address | city | pincode | state | id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Vedant Gampawar | Rajesh | 3 | February | 1996 | Male | vedant@yahoo.in | gokul dham society | ytm | 98701 | maharashtra | 4038 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [project1]> select * from signup2;

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Religion | Category | Income | Education | Occupation | Pan | Aadhar | Senior | Existing_ac | Form_no |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Hindu | General | <2,50,000 | Post-Graduate | Salaried | 124578 | 45698756 | No | No | 4038 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [project1]>
```