



Micro-Project Report

Institute Code: 0078

Academic Year: 2020-21

Course: Advanced Java Programming

Semester: 5

Class: TY – I

Program: Computer Technology

Course Code: 22517 Scheme: I

Date of Report: 25 /11 /20

Title of Micro-Project: ATM Management System.

1.0 Problem Definition:

The project entitled ATM system has a drastic change to that of the older version of banking system, customer feel inconvenient with the transaction method as it was in the hands of the bank employees. In our ATM system, the above problem is overcome here, the transactions are done in person by the customer thus makes the customers feel safe and secure. Thus, the application of our system helps the customer in checking the balance and transaction of the amount by validating the pin number therefore ATM system is more user friendly.

2.0 Rationale:

This project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain. This Microproject works on safe transaction and user validation. The system is designed as an interactive and content management system which deals with data entry, validation confirm and system interaction with users. By doing this micro-project we will become very much familiar to create frames, about handling events, how to connect database to the java app by using JDBC, etc.

3.0 Aim /Benefits of Micro-Project:

1. This micro project aims to develop a proper ATM Management System.
2. To make use of Swing components such as JFrame, JLabel, JTextField, JRadioButton, etc.
3. To understand the concept of JDBC by connecting back-end database as MySQL to the Java application.
4. To design interactive application by using events.

4.0 Course Outcomes Achieved (COs):

CO504.1: Develop program using GUI framework (AWT and Swing)

CO504.3: Handle events of AWT and Swing Components.

CO504.3: Develop programs to handle events in Java Programming.

CO504.5: Develop programs using Database.

5.0 Literature Review:

In this project we have mentioned how develop a Java based ATM Management System. We have referred various articles and reference books to get the deep knowledge about AWT and Swing concepts. Also, from the website www.javatpoint.com we have studied the concept of JDBC and how to make connection between database and java program. To make this project more reliable we have used NetBeans IDE 8.2 framework.

6.0 Actual Methodology followed:

1. First, we have discussed on which topic to choose with team members.
2. Then we have finalized the topic by discussing with the project guide and start gathering information.
3. After that we have prepared and submitted the Proposal to the guide.
4. Then we studied the concepts of AWT and Swing components to make GUI of ATM system.
5. We have also created the back-end as MySQL database.
6. After that we have connected the Database to the Java application with the help of JDBC.
7. We had presented the rough work to the project guide.
8. Then we have prepared the Micro-Project and did the required changes.
9. Prepared the final Report.
10. Submitted the Project with oral.

7.0 Actual Resources used:

S. No.	Name of Resource/material	Specifications	Qty	Remarks
1	Computer System	HP Laptop, RAM: 8GB, Processor: Intel Core i3, OS: Windows 10, HDD: 1TB	1	Available
2	Software	NetBeans IDE 8.2, JDK 1.8, MySQL, MS-WORD	1	Available
3	Reference Website	https://www.javatpoint.com	1	Available

8.0 Outputs of the Micro-Project:

Source Code:

conn.java

```
package asimulatorsystem;
```

```
/**
```

```
 *
```

```
 * @author SHRADDHA
```

```
 */
```

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

```
public class conn {
```

```
    Connection c;
```

```
    Statement s;
```

```
    public conn()
```

```
    {
```

```
        try
```

```

    {
        Class.forName("com.mysql.jdbc.Driver");
        c = DriverManager.getConnection("jdbc:mysql:///project2","root","");
        s = c.createStatement();
    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}
public static void main(String args[])
{
    new conn();
}
}

```

Login.java

```
package asimulatorsystem;
```

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

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

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

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

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

```
{
```

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

```
    JTextField tf1;
```

```
    JTextField pf2;
```

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

```
    Login()
```

```
{
```

```
    super("ATM Management System");
```

```
    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 JTextField(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);

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

tf1.setFont(new Font("Arial", Font.BOLD, 14));
tf1.setBounds(300,235,230,30);
add(tf1);

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.lightGray);

setSize(700,700);
setLocation(500,200);
setVisible(true);

}
public void actionPerformed(ActionEvent ae)
{
    try
    {
        conn c1 = new conn();
        String cardno = tf1.getText();
        String pin = pf2.getText();
        String q = "select * from login where cardno = '"+cardno+"' and pin = '"+pin+"'";
        ResultSet rs = c1.s.executeQuery(q);

        if(ae.getSource() == b1)
        {
            if(rs.next())
            {
                new Transactions(pin).setVisible(true);
                setVisible(false);
            }
            else
            {
                JOptionPane.showMessageDialog(null, "Incorrect Card No. 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);
    }
}

```

Transactions.java

```
package asimulatorsystem;
```

```

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

```

```
public class Transactions extends JFrame implements ActionListener
```

```

{
    JLabel l1;
    JButton b1,b2,b3,b4,b5,b6,b7;
    String pin;

    Transactions(String pin)
    {
        super("TRANSACTION");
        this.pin = pin;

        l1 = new JLabel("----Please Select Your Transaction-----");
        l1.setForeground(Color.BLACK);
        l1.setFont(new Font("System", Font.BOLD, 24));

        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);
    }
}

```

```
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(200,100,700,40);  
add(l1);
```

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

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

```
b4.setBounds(40,360,300,60);  
add(b4);
```

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

```
b6.setBounds(440,360,300,60);  
add(b6);
```

```
b7.setBounds(440,470,300,60);  
add(b7);
```

```
b1.addActionListener(this);  
b2.addActionListener(this);
```

```

b4.addActionListener(this);
b5.addActionListener(this);
b6.addActionListener(this);
b7.addActionListener(this);

getContentPane().setBackground(Color.CYAN);

setSize(800,800);
setLocation(500,90);
//setUndecorated(true);
setVisible(true);
}
public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==b1)
    {
        setVisible(false);
        new Deposit(pin).setVisible(true);
    }
    else if(ae.getSource()==b2)
    {
        setVisible(false);
        new Withdrawl(pin).setVisible(true);
    }
    else if(ae.getSource()==b4)
    {
        new MiniStatement(pin).setVisible(true);
    }
    else if(ae.getSource()==b5)
    {
        setVisible(false);
        new Pin(pin).setVisible(true);
    }
    else if(ae.getSource()==b6)
    {
        this.setVisible(false);
        new BalanceEnquiry(pin).setVisible(true);
    }
    else if(ae.getSource()==b7)
    {
        System.exit(0);
    }
}
public static void main(String[] args)
{

```



```

        new Transactions("").setVisible(true);
    }
}

```

Signup.java

```

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;
    String first = ""+ Math.abs(first4);

    Signup()
    {
        super("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);
```

```
ButtonGroup groupgender = new ButtonGroup();  
groupgender.add(r1);  
groupgender.add(r2);
```

```
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);
```

```
ButtonGroup groupstatus = new ButtonGroup();  
groupstatus.add(r3);  
groupstatus.add(r4);  
groupstatus.add(r5);
```

```
String date[] = {"1","2","3","4","5","6","7","8","9"};  
c1 = new JComboBox(date);  
c1.setBackground(Color.WHITE);
```

```
String month[] = {"Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sept","Oct","Nov","Dec"};
```

```
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 formno = first;
    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('"+formno+"','"+a+"','"+b+"','"+ac+"'+bc+'"+cc+"','"+d+"','"+e+"','"+f+"','"+g+"','"+h+"','"+i+"','"+j+"')";
            c1.s.executeUpdate(q1);

            new Signup2(first).setVisible(true);
            setVisible(false);
        }
    }
    catch(Exception ex)
    {
        ex.printStackTrace();
    }
}

public static void main(String args[])
{
    new Signup().setVisible(true);
}
}

```

Signup2.java

```
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,l13;
    JButton b;
    JRadioButton r1,r2,r3,r4;
    JTextField t1,t2,t3;
    JComboBox c1,c2,c3,c4,c5;
    String formno;

    Signup2(String formno)
    {
        super("New Account Application Form - Page 2");

        this.formno = formno;

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

```
l13 = new JLabel(formno);  
l13.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, 14));
```

```
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);

l13.setBounds(760,10,60,30);
add(l13);

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.getSelectedItemAt();
    String b = (String)c2.getSelectedItemAt();
    String c = (String)c3.getSelectedItemAt();
    String d = (String)c4.getSelectedItemAt();
    String e = (String)c5.getSelectedItemAt();

    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('"+formno+"','"+a+"','"+b+"','"+c+"','"+d+"','"+e+"','"+f+"','"+g+"','"+h+"','"+i+"')";
        c1.s.executeUpdate(q1);

        new Signup3(formno).setVisible(true);
        setVisible(false);
    }
}
catch(Exception ex)
{
    ex.printStackTrace();
}
}

public static void main(String[] args)
{
    new Signup2("").setVisible(true);
}
}

```

Signup3.java

```
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,l12;
    JRadioButton r1,r2,r3,r4;
    JButton b1,b2;
    JCheckBox c1,c2,c3,c4,c5,c6,c7;
    JTextField t1;
    String formno;

    Signup3(String formno)
    {
        super("NEW ACCOUNT APPLICATION FORM - PAGE 3");
        this.formno = formno;

        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));

        l11 = new JLabel("Form No:");

```

```
l11.setFont(new Font("Raleway", Font.BOLD, 14));

l12 = new JLabel(formno);
l12.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);
```

```
ButtonGroup groupgender = new ButtonGroup();  
groupgender.add(r1);  
groupgender.add(r2);  
groupgender.add(r3);  
groupgender.add(r4);
```

```
t1 = new JTextField();  
t1.setFont(new Font("Raleway", Font.BOLD, 16));
```

```
setLayout(null);
```

```
l11.setBounds(700,10,70,30);  
add(l11);
```

```
l12.setBounds(770,10,40,30);  
add(l12);
```

```
l1.setBounds(280,40,400,40);  
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(100,680,600,20);
add(c7);

b1.setBounds(250,720,100,30);
add(b1);

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

getContentPane().setBackground(Color.WHITE);

setSize(850,850);
setLocation(500,120);
setVisible(true);

b1.addActionListener(this);
b2.addActionListener(this);
}
public void actionPerformed(ActionEvent ae)
{
    String atype = null;
    if(r1.isSelected())
    {
        atype = "Saving Account";
    }
    else if(r2.isSelected())
    {
        atype = "Fixed Deposit Account";
    }
    else if(r3.isSelected())
    {
        atype = "Current Account";
    }
    else if(r4.isSelected())
    {
        atype = "Recurring Deposit Account";
    }

    Random ran = new Random();
    long first7 = (ran.nextLong() % 900000000L) + 5040936000000000L;
    String cardno = "" + Math.abs(first7);

    long first3 = (ran.nextLong() % 9000L) + 1000L;
    String pin = "" + Math.abs(first3);

```

```

String facility = "";
if(c1.isSelected())
{
    facility = facility + " ATM Card";
}
if(c2.isSelected())
{
    facility = facility + " Internet Banking";
}
if(c3.isSelected())
{
    facility = facility + " Mobile Banking";
}
if(c4.isSelected())
{
    facility = facility + " EMAIL Alerts";
}
if(c5.isSelected())
{
    facility = facility + " Cheque Book";
}
if(c6.isSelected())
{
    facility = facility + " E-Statement";
}

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

        if(atype.equals(""))
        {
            JOptionPane.showMessageDialog(null, "Fill all the required fields");
        }
        else
        {
            conn c1 = new conn();
            String q1 = "insert into signup3
values('"+formno+"','"+atype+"','"+cardno+"','"+pin+"','"+facility+"')";
            String q2 = "insert into login values('"+formno+"','"+cardno+"','"+pin+"')";
            c1.s.executeUpdate(q1);
            c1.s.executeUpdate(q2);
            JOptionPane.showMessageDialog(null, "Card Number: " + cardno + "\n Pin:" + pin);

```

```

        new Deposit(pin).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);
}
}

```

Deposit.java

```
package asimulatorsystem;
```

```

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

```

```
public class Deposit extends JFrame implements ActionListener
```

```

{
    JTextField t1,t2;
    JButton b1,b2,b3;
    JLabel l1,l2,l3;
    String pin;

    Deposit(String pin)
    {
        super("DEPOSIT");
        this.pin = pin;

        l1 = new JLabel("ENTER AMOUNT YOU WANT");
        l1.setForeground(Color.BLACK);
        l1.setFont(new Font("System", Font.BOLD, 35));
    }
}

```

```
l2 = new JLabel("TO DEPOSIT");  
l2.setForeground(Color.BLACK);  
l2.setFont(new Font("System", Font.BOLD, 35));
```

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

```
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);
```

```
l1.setBounds(190,100,600,35);  
add(l1);
```

```
l2.setBounds(300,150,600,35);  
add(l2);
```

```
t1.setBounds(250,300,350,40);  
add(t1);
```

```
b1.setBounds(250,450,150,60);  
add(b1);
```

```
b2.setBounds(450,450,150,60);  
add(b2);
```

```
b3.setBounds(350,550,150,60);  
add(b3);
```

```
b1.addActionListener(this);  
b2.addActionListener(this);
```

```

b3.addActionListener(this);

getContentPane().setBackground(Color.LIGHT_GRAY);

setSize(850,850);
setLocation(500,90);
setVisible(true);
}
public void actionPerformed(ActionEvent ae)
{
    try
    {
        String amount = t1.getText();
        // Date date = new Date();
        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();
                c1.s.executeUpdate("insert into bank values('"+pin+"', 'Current Date', 'Deposit',
""+amount+"')");
                JOptionPane.showMessageDialog(null, "Rs. "+amount+" Deposited Successfully");
                setVisible(false);
                new Transactions(pin).setVisible(true);
            }
        }
        else if(ae.getSource()==b2)
        {
            setVisible(false);
            new Transactions(pin).setVisible(true);
        }
        else if(ae.getSource()==b3)
        {
            System.exit(0);
        }
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}

```

```

    }
    public static void main(String[] args)
    {
        new Deposit("").setVisible(true);
    }
}

```

Withdrawl.java

```
package asimulatorsystem;
```

```

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

```

```
public class Withdrawl extends JFrame implements ActionListener
```

```

{
    JTextField t1,t2;
    JButton b1,b2,b3;
    JLabel l1,l2,l3,l4;
    String pin;

    Withdrawl(String pin)
    {
        super("WITHDRAWAL");
        this.pin = pin;

        l1 = new JLabel("MAXIMUM WITHDRAWAL");
        l1.setForeground(Color.BLACK);
        l1.setFont(new Font("System", Font.BOLD, 35));

        l2 = new JLabel("IS RS.10,000");
        l2.setForeground(Color.BLACK);
        l2.setFont(new Font("System", Font.BOLD, 35));

        l3 = new JLabel("PLEASE ENTER YOUR AMOUNT");
        l3.setForeground(Color.BLACK);
        l3.setFont(new Font("System", Font.BOLD, 16));

        t1 = new JTextField();
        t1.setFont(new Font("Raleway", Font.BOLD, 25));

        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);

l1.setBounds(220,100,600,35);
add(l1);

l2.setBounds(330,150,600,35);
add(l2);

l3.setBounds(300,250,600,24);
add(l3);

t1.setBounds(250,300,350,40);
add(t1);

b1.setBounds(250,450,150,60);
add(b1);

b2.setBounds(450,450,150,60);
add(b2);

b3.setBounds(350,550,150,60);
add(b3);

b1.addActionListener(this);
b2.addActionListener(this);
b3.addActionListener(this);

getContentPane().setBackground(Color.LIGHT_GRAY);

setSize(850,850);
setLocation(500,90);
setVisible(true);
```



```

}
public void actionPerformed(ActionEvent ae)
{
    try
    {
        String amount = t1.getText();
        //Date date = new Date();
        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 = '"+pin+"'");
                int balance = 0;
                while(rs.next())
                {
                    if(rs.getString("mode").equals("Deposit"))
                    {
                        balance += Integer.parseInt(rs.getString("amount"));
                    }else
                    {
                        balance -= Integer.parseInt(rs.getString("amount"));
                    }
                }
                if(balance < Integer.parseInt(amount))
                {
                    JOptionPane.showMessageDialog(null, "Insuffient Balance");
                    return;
                }

                c1.s.executeUpdate("insert into bank values('"+pin+"', 'Current Date', 'Withdrawl',
 '"+amount+"')");
                JOptionPane.showMessageDialog(null, "Rs. "+amount+" Debited Successfully");

                setVisible(false);
                new Transactions(pin).setVisible(true);
            }
        }
        else if(ae.getSource()==b2)

```

```

        {
            setVisible(false);
            new Transactions(pin).setVisible(true);
        }
        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);
}
}

```

MiniStatement.java

```
package asimulatorsystem;
```

```

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

```

```
public class MiniStatement extends JFrame implements ActionListener
```

```

{
    JButton b1, b2;
    JLabel l1,l5;

    MiniStatement(String pin)
    {
        super("Mini Statement");
        getContentPane().setBackground(Color.WHITE);
        setSize(400,600);
        setLocation(20,20);

        l1 = new JLabel();
        add(l1);

        JLabel l2 = new JLabel("Indian Bank");
    }
}

```

```
l2.setFont(new Font("Italic", Font.BOLD, 14));
l2.setBounds(150, 20, 100, 20);
add(l2);
```

```
JLabel l3 = new JLabel();
l3.setBounds(20, 80, 300, 20);
add(l3);
```

```
JLabel l4 = new JLabel();
l4.setBounds(20, 400, 300, 20);
add(l4);
```

```
l5 = new JLabel("SAVE PAPER - GO Electronic !");
l5.setForeground(Color.GREEN);
l5.setFont(new Font("Italic", Font.BOLD, 18));
l5.setBounds(20,450,300,20);
add(l5);
```

[illegible]

```

        else
        {
            balance -= Integer.parseInt(rs.getString("amount"));
        }
    }
    l4.setText("Your total Balance is Rs "+balance);
}
catch(Exception e)
{
    e.printStackTrace();
}

setLayout(null);
b1 = new JButton("Exit");
add(b1);

b1.addActionListener(this);

l1.setBounds(20, 140, 400, 200);
b1.setBounds(20, 500, 100, 25);
}
public void actionPerformed(ActionEvent ae)
{
    this.setVisible(false);
}
public static void main(String[] args)
{
    new MiniStatement("").setVisible(true);
}
}

```

BalanceEnquiry.java

```
package asimulatorsystem;
```

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

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

```
import java.sql.ResultSet;
```

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

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

```
public class BalanceEnquiry extends JFrame implements ActionListener
```

```
{
```

```
    JTextField t1, t2;
```

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

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

String pin;

BalanceEnquiry(String pin)

```
{
    super("BALANCE ENQUIRY");
    this.pin = pin;

    l1 = new JLabel();
    l1.setForeground(Color.BLACK);
    l1.setFont(new Font("System", Font.BOLD, 16));

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

    setLayout(null);

    l1.setBounds(190, 350, 400, 35);
    add(l1);

    b1.setBounds(390, 633, 150, 35);
    add(b1);

    int balance = 0;
    try
    {
        conn c1 = new conn();
        ResultSet rs = c1.s.executeQuery("select * from bank where pin = '"+pin+"'");
        while (rs.next())
        {
            if (rs.getString("mode").equals("Deposit"))
            {
                balance += Integer.parseInt(rs.getString("amount"));
            }
            else
            {
                balance -= Integer.parseInt(rs.getString("amount"));
            }
        }
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}
```

```

l1.setText("Your Current Account Balance is Rs "+balance);

b1.addActionListener(this);

setSize(960, 1080);
setLocation(500,90);
setVisible(true);
}
public void actionPerformed(ActionEvent ae)
{
    setVisible(false);
    new Transactions(pin).setVisible(true);
}
public static void main(String[] args)
{
    new BalanceEnquiry("").setVisible(true);
}
}

```

Pin.java

```

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;
    String pin;

    Pin(String pin)
    {
        super("PIN CHANGE");
        this.pin = pin;

        l1 = new JLabel("CHANGE YOUR PIN");
        l1.setFont(new Font("System", Font.BOLD, 35));

        l2 = new JLabel("Current PIN : ");
        l2.setFont(new Font("System", Font.BOLD, 22));
    }
}

```

```
l3 = new JLabel("New PIN : ");
l3.setFont(new Font("System", Font.BOLD, 22));

l4 = new JLabel("Re-Enter PIN : ");
l4.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("CHANGE");
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 cpin = t1.getText();
        String npin = t2.getText();
        String rpin = t3.getText();

        if(ae.getSource()==b1)
        {
            if(t1.getText().equals(""))
            {
                JOptionPane.showMessageDialog(null, "Please Enter Current PIN");
            }
            if(t2.getText().equals(""))
            {
                JOptionPane.showMessageDialog(null, "Please Enter New PIN");
            }
            if(t3.getText().equals(""))
            {
                JOptionPane.showMessageDialog(null, "Please Re-Enter New PIN");
            }
            if(t2.getText().equals(t3.getText()))
            {
                conn c1 = new conn();
                String q1 = "update bank set pin = '"+rpin+"' where pin = '"+pin+"' ";

```



```
String q2 = "update login set pin = '"+rpin+"' where pin = '"+pin+"' ";  
String q3 = "update signup3 set pin = '"+rpin+"' where pin = '"+pin+"' ";
```

```
c1.s.executeUpdate(q1);  
c1.s.executeUpdate(q2);  
c1.s.executeUpdate(q3);
```

```
JOptionPane.showMessageDialog(null, "PIN Changed Successfully");
```

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

```
}
```

```
else
```

```
{
```

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

```
}
```

```
}
```

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

```
{
```

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

```
    setVisible(false);
```

```
}
```

```
}
```

```
catch(Exception e)
```

```
{
```

```
    e.printStackTrace();
```

```
}
```

```
}
```

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

```
{
```

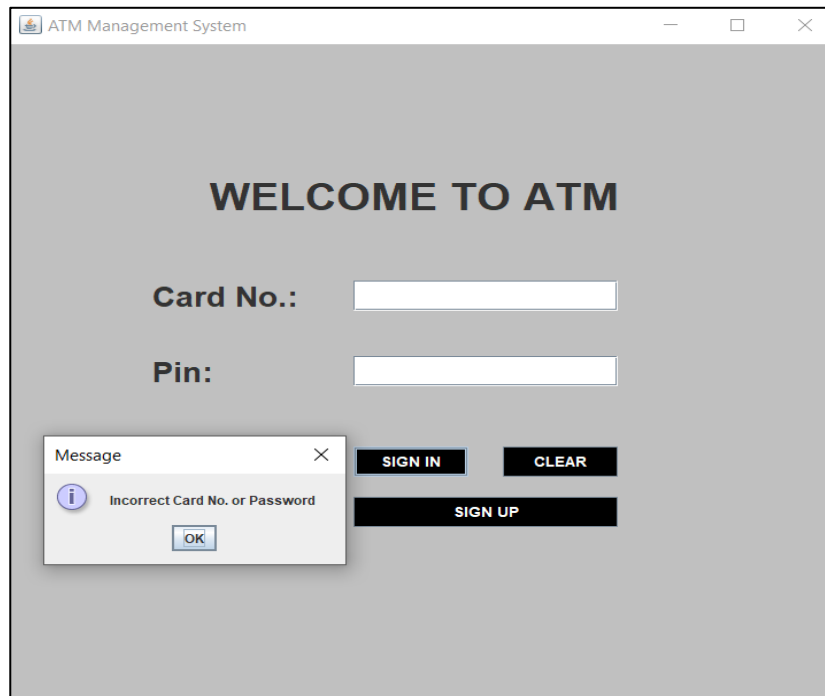
```
    new Pin("").setVisible(true);
```

```
}
```

```
}
```

Output:

If user does not enter any value in the text fields...



The screenshot shows a web application window titled "ATM Management System". The main heading is "WELCOME TO ATM". Below it, there are two input fields: "Card No.:" and "Pin:". To the right of these fields are three buttons: "SIGN IN", "CLEAR", and "SIGN UP". A message box is open in the foreground, displaying an information icon, the text "Incorrect Card No. or Password", and an "OK" button.

If user click on SIGN UP button, Application form will appear...



The screenshot shows a web application window titled "New Account Application Form". The main heading is "APPLICATION FORM NO. 5122". Below it, the text "Page 1: Personal Details" is displayed. The form contains the following fields and options:

- Name:** Shradha Chavan
- Father's Name:** Rajesh
- Date of Birth:** Date 13, Month Jan, Year 2001
- Gender:** ☐ Male, ☒ Female
- Email Address:** shrchavan11@gmail.com
- Marital Status:** ☐ Married, ☒ Unmarried, ☐ Other
- Address:** Panchavati
- City:** Nashik
- Pin Code:** 422003
- State:** Maharashtra

A "Next" button is located at the bottom right of the form.

After clicking on Next button, Page 2 of Application Form will appear...

New Account Application Form - Page 2

Form No: 5122

Page 2: Additional Details

Religion:

Hindu

Category:

General

Income:

Null

Educational Qualification:

Graduate

Occupation:

Student

PAN Number:

ABC123456

Aadhar Number:

989822224444

Senior Citizen:

☐ Yes

☒ No

Existing Account:

☐ Yes

☒ No

Next

After clicking Next button, Page 3 of Application Form will appear...

NEW ACCOUNT APPLICATION FORM - PAGE 3

Form No: 5122

Page 3: Account Details

Account Type:

☒ Saving Account

☐ Fixed Deposit Account

☐ Current Account

☐ Recurring Deposit Account

Card Number:

XXXX-XXXX-XXXX-4184

(Your 16-digit Card number)

It would appear on ATM Card/Cheque Book and Statements

PIN:

XXXX

(4-digit password)

Services Required:

☒ ATM CARD

☒ Internet Banking

☐ Mobile Banking

☒ EMAIL Alerts

☐ Cheque Book

☐ E-Statement

☒ I hereby declares that the above entered details correct to th best of my knowledge.

Submit

Cancel

After clicking on Submit button, A new message Dialog Box containing Card no. and Pin will appear...

NEW ACCOUNT APPLICATION FORM - PAGE 3 Form No: 5122

Page 3: Account Details

Account Type:

☒ Saving Account ☐ Fixed Deposit Account

☐ Current Account ☐ Recurring Deposit Account

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 declares that the above entered details correct to th best of my knowledge.

Submit **Cancel**

Message

Card Number: 5040935939271452

Pin: 7739

OK

After clicking on Submit button, options Transaction will appear...

TRANSACTION

----Please Select Your Transaction----

DEPOSIT

CASH WITHDRAWAL

MINI STATEMENT

BALANCE ENQUIRY

PIN CHANGE

EXIT

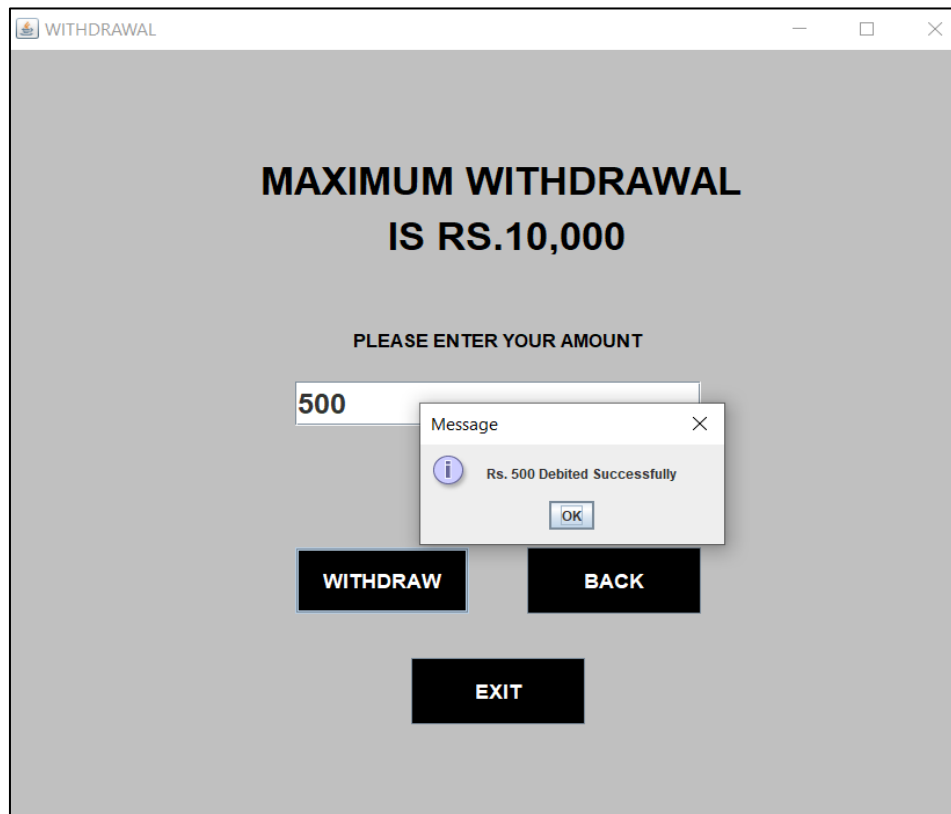
After clicking on DEPOSIT button, following window will appear...

The screenshot shows a window titled "DEPOSIT" with a gray background. At the top, it says "ENTER AMOUNT YOU WANT TO DEPOSIT". Below this, there is a text input field containing the number "1000". To the right of the input field, a small "Message" dialog box is open, displaying an information icon, the text "Rs. 1000 Deposited Successfully", and an "OK" button. Below the input field, there are three buttons: "DEPOSIT", "BACK", and "EXIT".

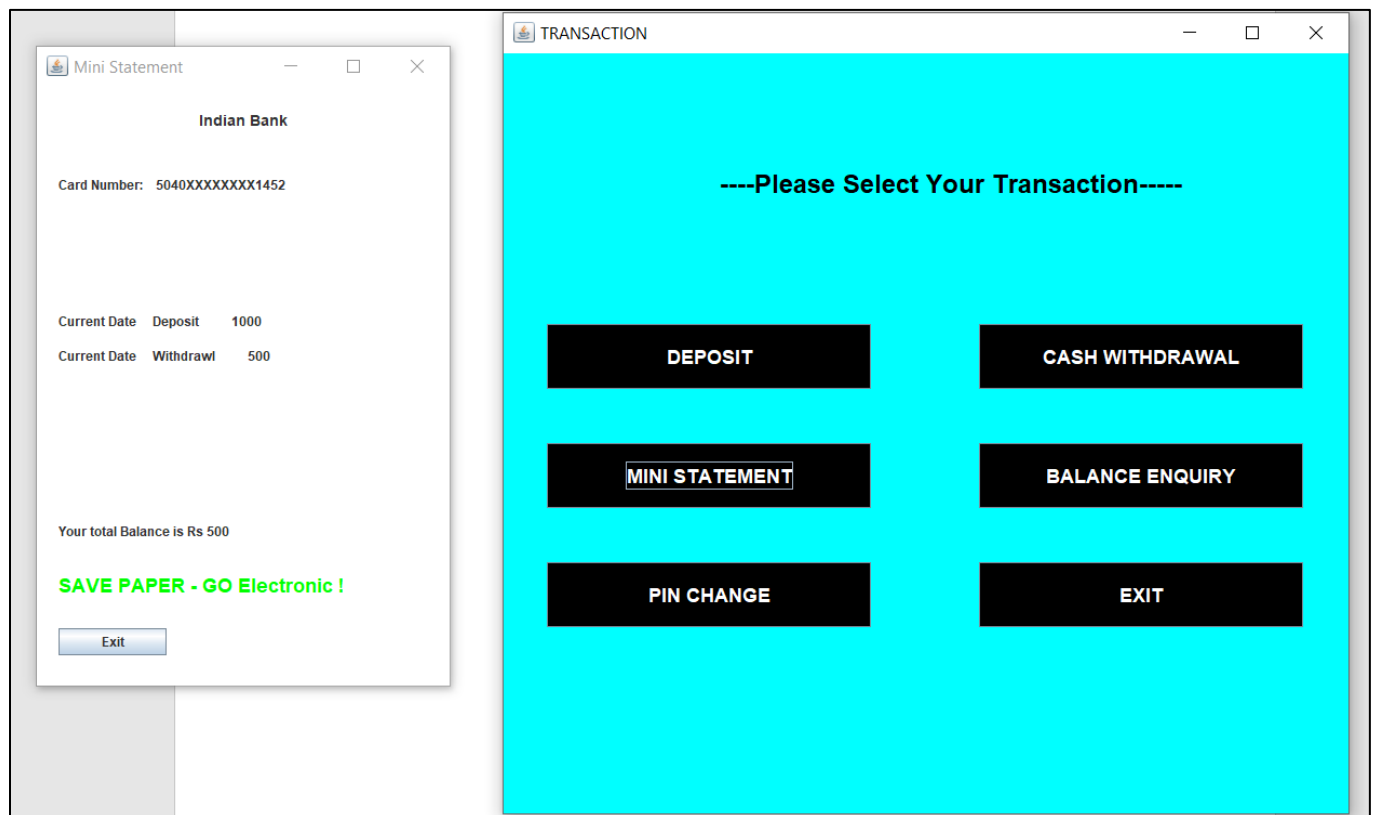
If user enters huge amount than current balance, an error will be shown...

The screenshot shows a window titled "WITHDRAWAL" with a gray background. At the top, it says "MAXIMUM WITHDRAWAL IS RS.10,000". Below this, it says "PLEASE ENTER YOUR AMOUNT". There is a text input field containing the number "999999". To the right of the input field, a small "Message" dialog box is open, displaying an information icon, the text "Insufficient Balance", and an "OK" button. Below the input field, there are three buttons: "WITHDRAW", "BACK", and "EXIT".

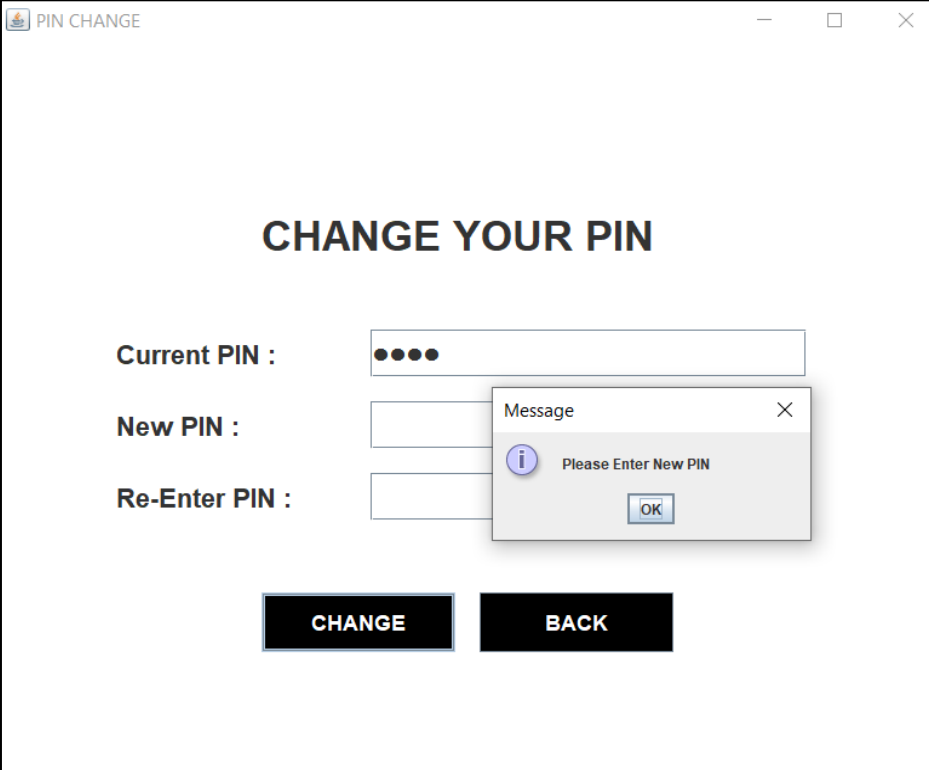
If user enter sufficient amount, then the success message will shown as below...



After clicking on MINI STATEMENT button, the Mini Statement of whole transaction will appear...

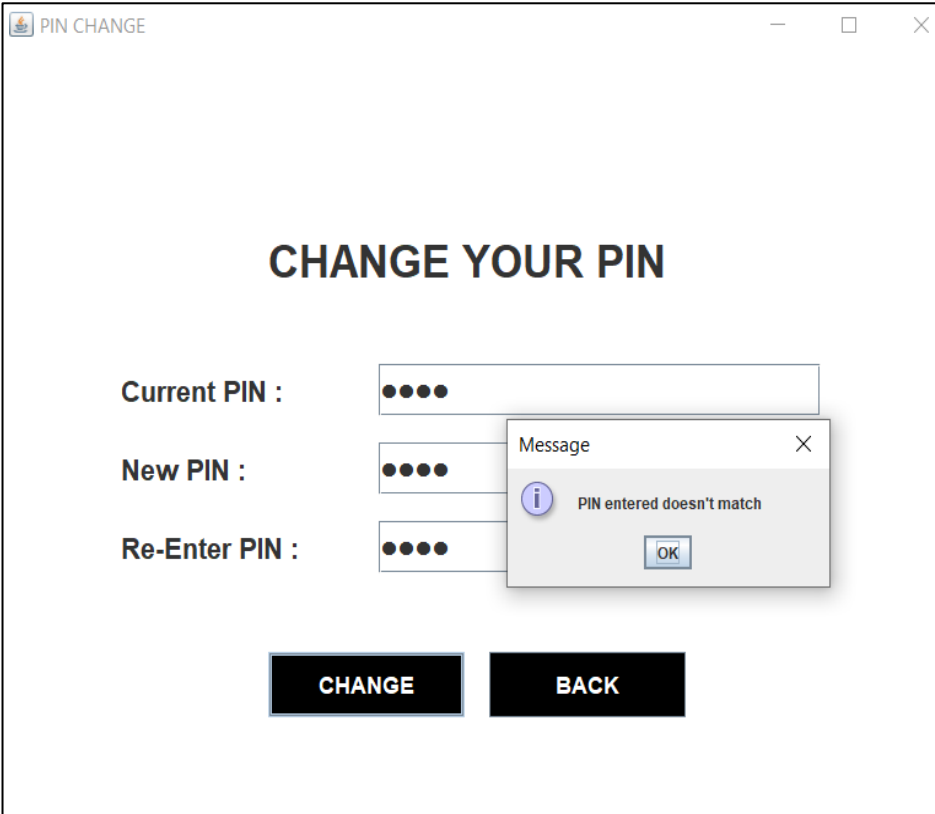


If user does not enter New Pin & clicks on CHANGE button...



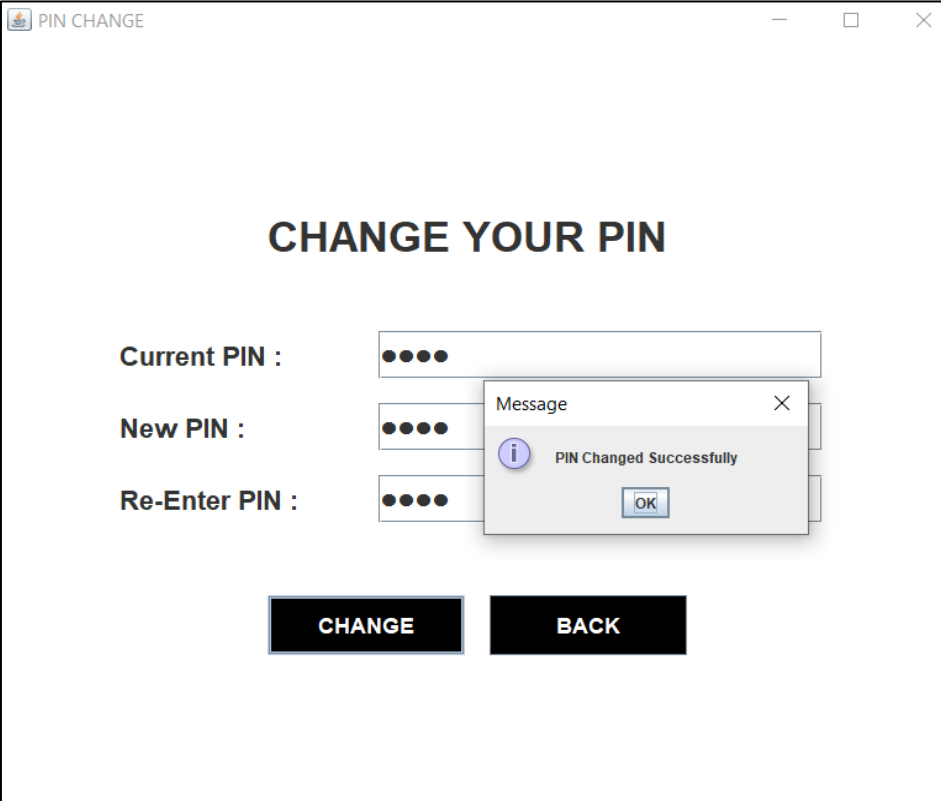
The screenshot shows a window titled "PIN CHANGE" with a title bar containing a small icon and standard window controls. The main heading is "CHANGE YOUR PIN". Below this, there are three input fields: "Current PIN :" (filled with four black dots), "New PIN :", and "Re-Enter PIN :". At the bottom are two buttons: "CHANGE" and "BACK". A modal message box is open over the "New PIN" and "Re-Enter PIN" fields. The message box has a title bar "Message" and a close button. It contains an information icon, the text "Please Enter New PIN", and an "OK" button.

If user does not enter same Pin...



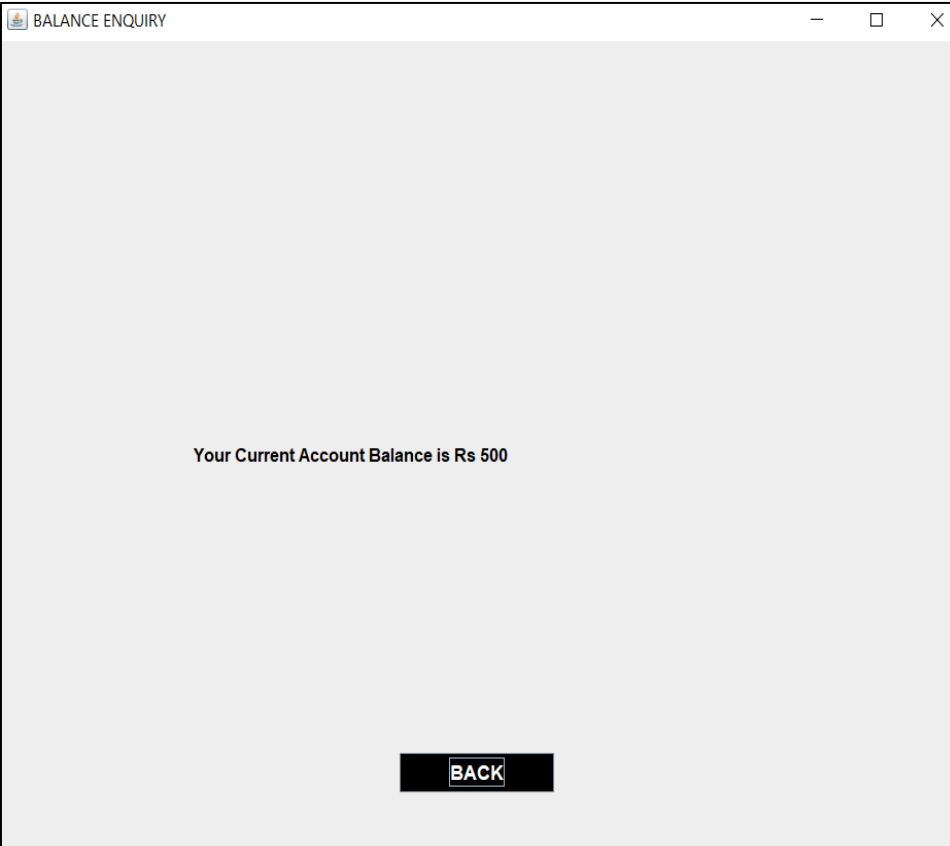
The screenshot shows the same "PIN CHANGE" window. In this instance, the "New PIN" and "Re-Enter PIN" fields are both filled with four black dots. A modal message box is open, displaying an information icon, the text "PIN entered doesn't match", and an "OK" button.

If user enters correct pin in both the text fields, the success message will be shown as below...



The screenshot shows a window titled "PIN CHANGE" with a standard Windows-style title bar. The main content area has the heading "CHANGE YOUR PIN" in bold. Below this, there are three labels: "Current PIN :", "New PIN :", and "Re-Enter PIN :", each followed by a text input field containing four black dots. At the bottom, there are two black buttons with white text: "CHANGE" and "BACK". A small "Message" dialog box is overlaid on the right side of the input fields. The dialog box has a title bar with a close button (X) and contains an information icon (i) followed by the text "PIN Changed Successfully" and an "OK" button.

If user clicks on BALANCE ENQUIRY button, this window will be shown...



The screenshot shows a window titled "BALANCE ENQUIRY" with a standard Windows-style title bar. The main content area is light gray and contains the text "Your Current Account Balance is Rs 500" in the center. At the bottom center, there is a black button with white text that says "BACK".

9.0 Skill Developed / Learning outcome of this Micro-Project:

1. Proper knowledge about working on NetBeans IDE.
2. To make use of MySQL console.
3. Applying validations to the Swing components.
4. Ability to make use of events to make project more interactive.
5. Knowledge about database creation and concept of JDBC.

10.0 Applications of Micro Project:

1. Useful for online transactions.
2. Useful to withdraw, deposit, balance enquiry activities.
3. It also fulfills the business requirements.
4. Can be used for banking purpose.

11.0 Name of Group Members:

Enrolment	Roll No.	Seat No.	Name of Students	Student Signature
1800780482	34		Shraddha Rajesh Chavan	
1800780516	63		Neha Jayram Sonawane	
1800780521	68		Kaveri Balasaheb Valve	

Date: 25 / 11 / 20

Evaluated by:

Dated Signature of Guide: _____

Name of Guide: Mr. S. K. Mahajan



K. K. WAGH POLYTECHNIC, NASHIK.

HIRABAI HARIDAS VIDYANAGARI, AMRUTDHAM, PANCHAVATI, NASHIK-422003

DEPARTMENT OF COMPUTER TECHNOLOGY

Micro Project Evaluation Sheet for Theory Course

Institute Code: 0078

Academic Year: 2020-21

Course: Advanced Java Programming

Semester: 5

Class: TY – I

Program: Computer Technology

Course Code: 22517 Scheme: I

Date of Evaluation: 25 / 11 / 20

1.0 Title of Micro-Project: ATM Management System.

2.0 Course Outcomes achieved (COs):

CO504.1: Develop program using GUI framework (AWT and Swing)

CO504.3: Handle events of AWT and Swing Components.

CO504.3: Develop programs to handle events in Java Programming.

CO504.5: Develop programs using Database.

3.0 Evaluation:

Sr. No.	Characteristic to be Assessed	Marks out of 10 per characteristic			Converted Marks		
		34	63	68	34	63	68
1	Relevance to the course				<div>Out of 6</div> <div>Process & Product Assessment</div> <div>(for group)</div>		
2	Literature Survey / Information Collection						
3	Completion of Target as per proposal						
4	Analysis of Data and representation						
5	Quality of Prototype/Model						
6	Report Preparation						
7	Presentation						
8	Viva				<div>Out of 4</div> <div>Individual Presentation/Viva</div>		

Scale of Marks out of 10	Poor (Marks 1-3)	Average (Marks 4-5)	Good (Marks 6-8)	Excellent (Marks 9-10)
--------------------------	------------------	-----------------------	--------------------	------------------------

Enrolment No.	Seat No.	Name of Student	Process & Product Assessment (6 Marks)	Individual Presentation/Viva (4 Marks)	Total Marks 10
1800780482	34	Shraddha Rajesh Chavan			
1800780516	63	Neha Jayram Sonawane			
1800780521	68	Kaveri Balasaheb Valve			

4.0 Comments/Suggestions about team work/leadership/inter-personal communication:

Date: 25 / 11 / 20

Evaluated by: Signature of Guide: _____

Name of Guide: Mr. S. K. Mahajan