Practical 2

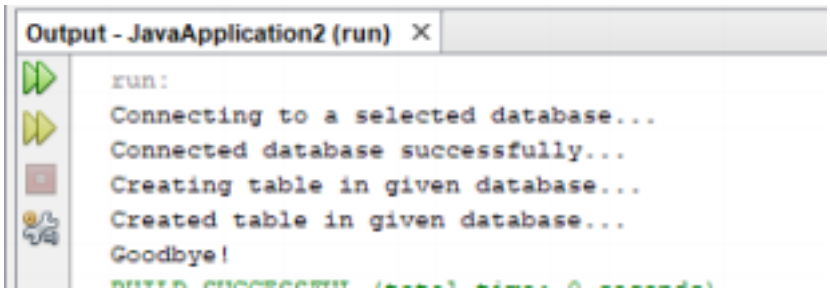
Aim: Design suitable database for Library Management System.

LibCreate.java

```
import java.sql.*;

public class LibCreate {
 // JDBC driver name and database URL
 static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
static final String DB_URL = "jdbc:mysql://localhost/STUDENTS";

 // Database credentials
 static final String USER = "username";
 static final String PASS = "password";

 public static void main(String[] args) {
 Connection conn = null;
 Statement stmt = null;
 try{
 //STEP 2: Register JDBC driver
 Class.forName("com.mysql.jdbc.Driver");

 //STEP 3: Open a connection
 System.out.println("Connecting to a selected database...");  conn =
DriverManager.getConnection(DB_URL, USER, PASS);
System.out.println("Connected database successfully...");
 //STEP 4: Execute a query
 System.out.println("Creating table in given database...");
stmt = conn.createStatement();

 String sql = "CREATE TABLE Librarian " +
 "(id INTEGER not NULL, " +
 " name VARCHAR(255), " +
 "password VARCHAR(255), " +
 "email VARCHAR(255), " +
 "adderss VARCHAR(255), " +
 "city VARCHAR(255), " +
 "contact VARCHAR(255), " +
 " PRIMARY KEY ( id ))";

 stmt.executeUpdate(sql);
 System.out.println("Created table in given database...");
 }catch(SQLException se){
 //Handle errors for JDBC
 se.printStackTrace();
 }catch(Exception e){
 //Handle errors for Class.forName
 e.printStackTrace();
 }finally{
 //finally block used to close resources
```

```
try{
if(stmt!=null)
conn.close();
}catch(SQLException se){
}// do nothing
try{
if(conn!=null)
conn.close();
}catch(SQLException se){
se.printStackTrace();
}//end finally try
}//end try
System.out.println("Goodbye!");
}//end main
}//end LibCreate
```

Output



In a similar manner we can create the tables for books table thus completing the database structure

Practical 3a: Registration

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author bot
 */
public class pract2A extends javax.swing.JFrame {

    /**
     * Creates new form pract2A
     */
    public pract2A() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

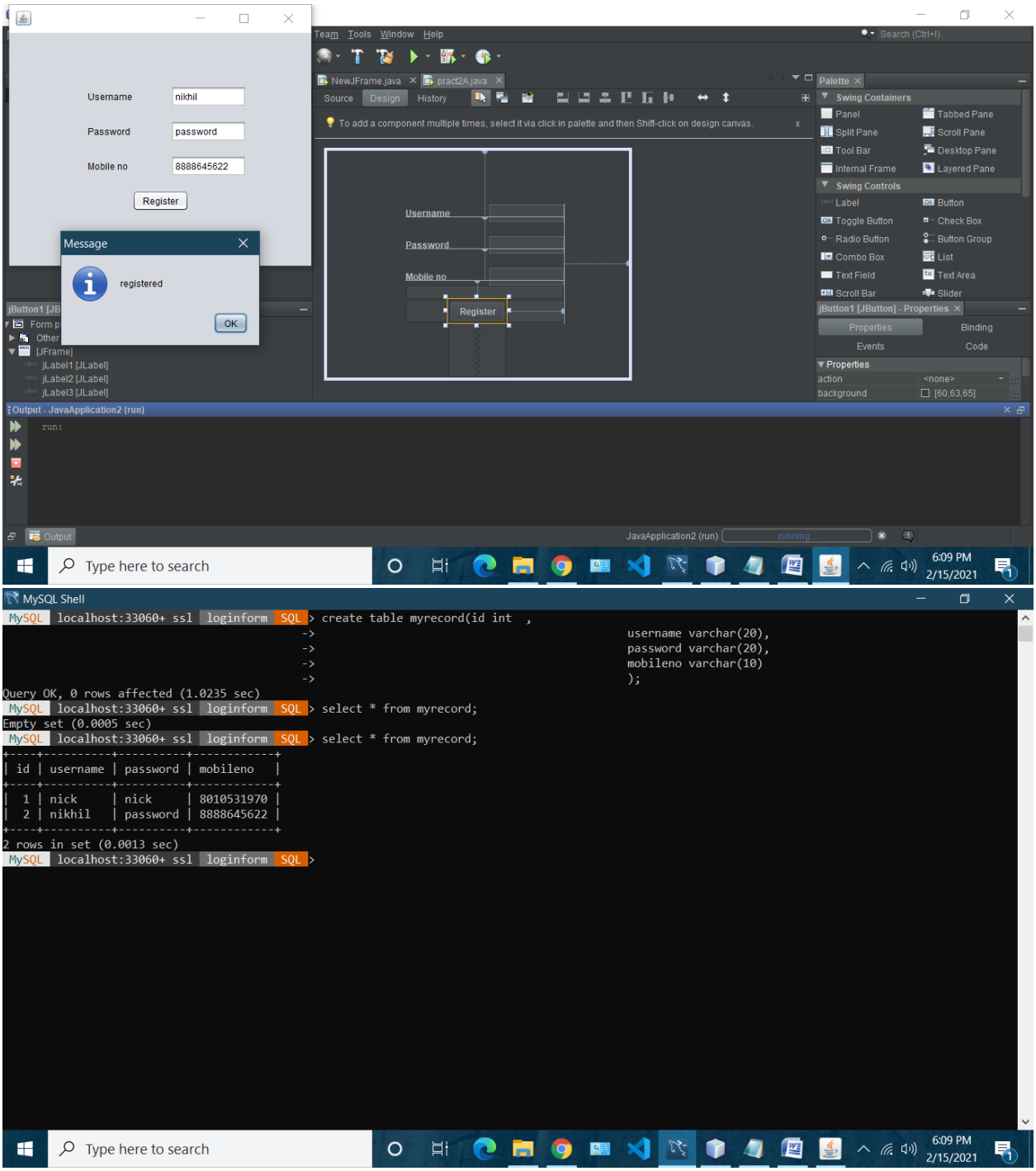
```
        jLabel1.setText("Username");

        jLabel2.setText("Password");

        jLabel3.setText("Mobile no");

        jButton1.setText("Register");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap(104, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel1)
                            .addComponent(jLabel2)
                            .addComponent(jLabel3))
                        .addGap(51, 51, 51)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addComponent(jTextField3)
                            .addComponent(jTextField2)
                            .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 56,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jButton1)
                        .addGap(76, 76, 76)))
                .addGap(86, 86, 86))
        );
        layout.setVerticalGroup(
```

```
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(70, 70, 70)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel3)
                    .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addComponent(jButton1)
                .addContainerGap(72, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
        String uname= jTextField1.getText();
        String pass= jTextField2.getText();
        String mobileno= jTextField3.getText();
        Integer maxid = 0;

            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/loginform?autoReconnect
=true&useSSL=false", "root", "root");
            Statement stmt =conn.createStatement();
            String sql= "select max(id) from myrecord";
            ResultSet result=stmt.executeQuery(sql);
            if(result.next()){
                maxid = result.getInt(1);
                //JOptionPane.showMessageDialog(this,String.valueOf(maxid));
                maxid+=1;
            }
```

```
            sql="insert into myrecord values("+ maxid +",'"
                    +uname+"','"+pass+"','"+mobileno+"');";
            stmt.executeUpdate(sql);
            JOptionPane.showMessageDialog(this, "registered");

        } catch (SQLException ex) {
            Logger.getLogger(pract2A.class.getName()).log(Level.SEVERE, null, ex);
        }


    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(pract2A.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(pract2A.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(pract2A.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(pract2A.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
```

```
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new pract2A().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField jTextField3;
    // End of variables declaration
}
```

Output:



Practical 3b: login

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
```

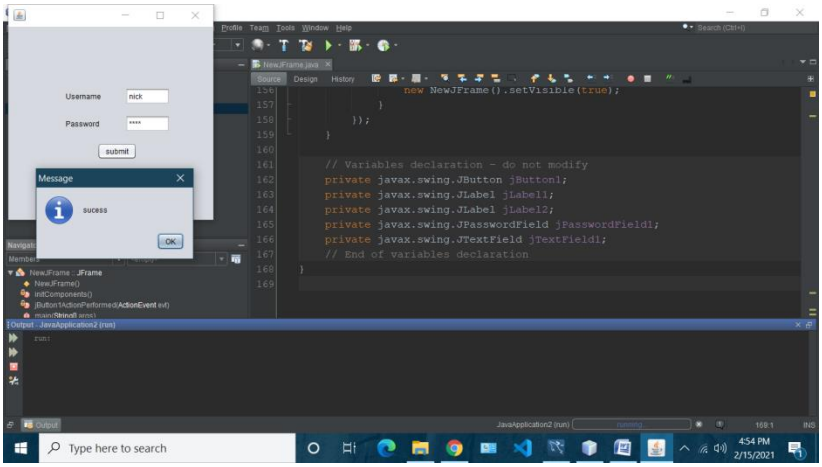
```
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author bot
 */
public class NewJFrame extends javax.swing.JFrame {

    /**
     * Creates new form NewJFrame
     */
    public NewJFrame() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jTextField1 = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jPasswordField1 = new javax.swing.JPasswordField();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setText("Username");

        jLabel2.setText("Password");

        jButton1.setText("submit");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

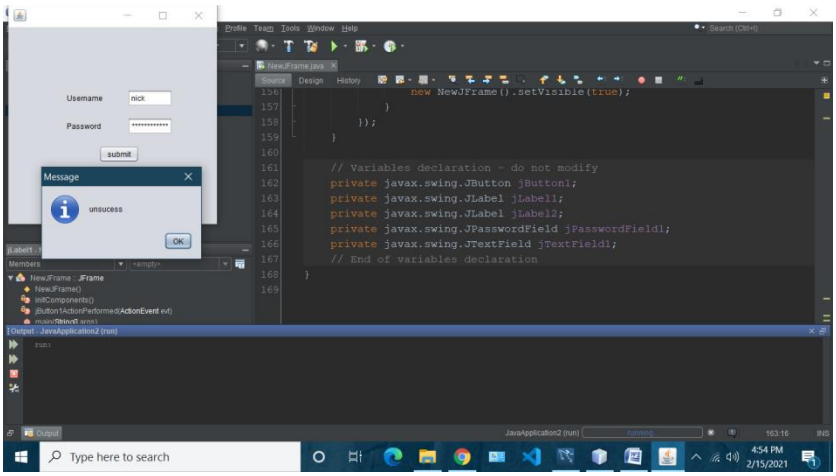
```
            jButton1ActionPerformed(evt);
        }
    });

    jPasswordField1.setText("jPasswordField1");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(96, 96, 96)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel1)
                        .addComponent(jLabel2))
                    .addGap(41, 41, 41)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT_SIZE,
74, Short.MAX_VALUE)
                        .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 1, Short.MAX_VALUE)))
                .addGroup(layout.createSequentialGroup()
                    .addGap(149, 149, 149)
                    .addComponent(jButton1)))
            .addContainerGap(73, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(102, 102, 102)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel1))
            .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
                .addGap(18, 18, 18)
                .addComponent(jButton1)
                .addContainerGap(101, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>


    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:
        String uname=jTextField1.getText();
        String pass;
        pass = String.valueOf(jPasswordField1.getPassword());
        //JOptionPane.showMessageDialog(this, pass);
        try {
            Connection con
=DriverManager.getConnection("jdbc:mysql://localhost:3306/loginform?autoReconnect=true
&useSSL=false","root","root");
            Statement stmt=con.createStatement();
            String sql="select * from myrecord where username='"+uname+"' and
password='"+pass+"';";

            //JOptionPane.showMessageDialog(this, sql);
            ResultSet r=stmt.executeQuery(sql);

            if(r.next())
            {JOptionPane.showMessageDialog(this, "sucess");}
            else
            {{JOptionPane.showMessageDialog(this, "unsucess");}}

        } catch (SQLException ex) {
            Logger.getLogger(NewJFrame.class.getName()).log(Level.SEVERE, null, ex);
        }

    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
```

```
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(NewJFrame.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new NewJFrame().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JTextField jTextField1;
    // End of variables declaration
}
```

Output:





Practical 3C: Change Password

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author bot
```

```
 */
public class chgpass extends javax.swing.JFrame {

    /**
     * Creates new form chgpass
     */
    public chgpass() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField3 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jPasswordField1 = new javax.swing.JPasswordField();
        jPasswordField2 = new javax.swing.JPasswordField();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setText("Usernme");

        jLabel2.setText("Old Password");

        jLabel3.setText("Mobile no");

        jLabel4.setText("New Password");

        jTextField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextField1ActionPerformed(evt);
            }
        });

        jButton1.setText("Update Password");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
```

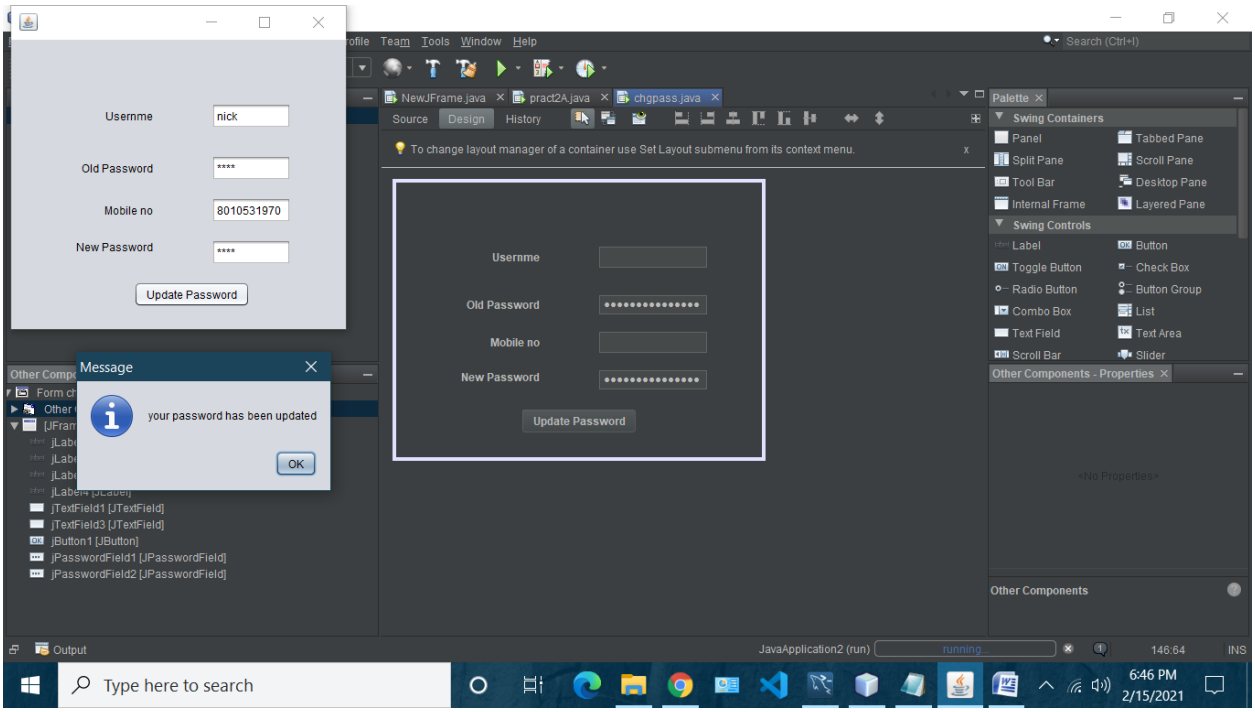
```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jPasswordField1.setText("jPasswordField1");

    jPasswordField2.setText("jPasswordField2");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(71, 71, 71)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addComponent(jLabel4)
                        .addComponent(jLabel3)
                        .addComponent(jLabel2)
                        .addComponent(jLabel1))
                    .addGap(64, 64, 64)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(jTextField1)
                        .addComponent(jTextField3)
                        .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jPasswordField2,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(layout.createSequentialGroup()
                    .addGap(134, 134, 134)
                    .addComponent(jButton1)))
            .addContainerGap(60, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(69, 69, 69)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

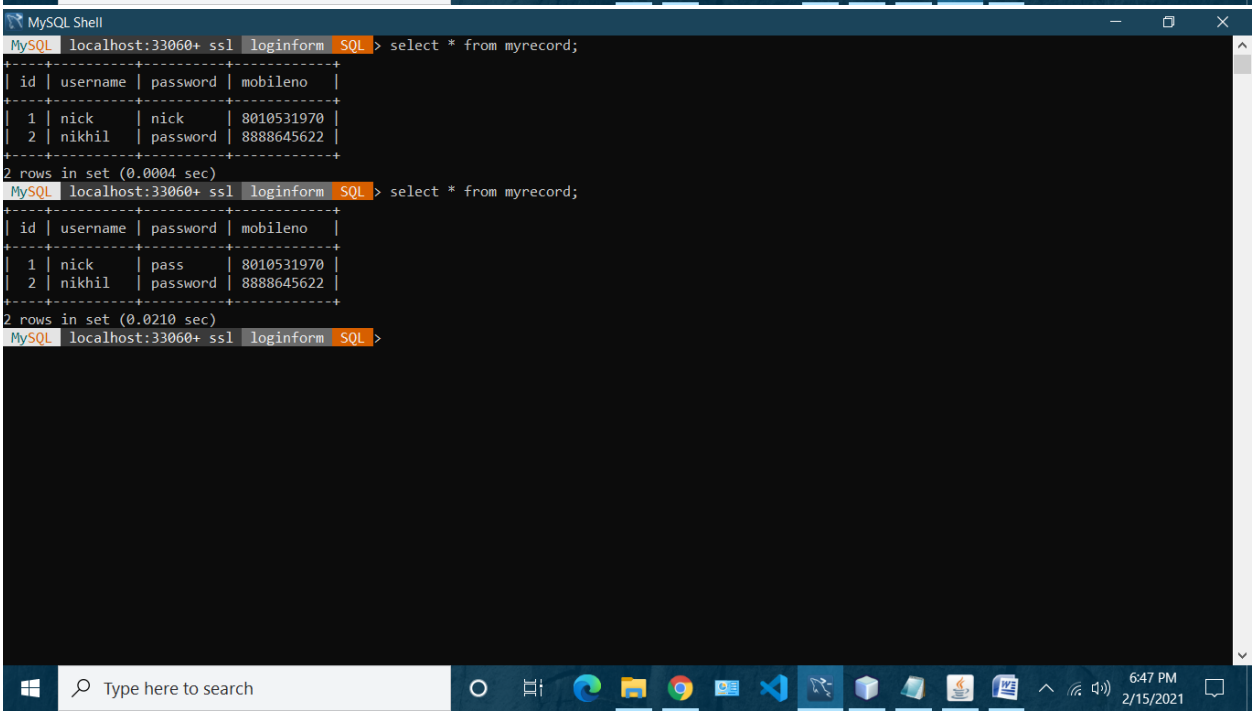
```
                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel1))
            .addGap(29, 29, 29)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3))
            .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel4)
                .addComponent(jPasswordField2,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)
            .addComponent(jButton1)
            .addContainerGap(24, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
        String uname= jTextField1.getText();
        String pass= String.valueOf(jPasswordField1.getPassword());
        String mobileno= jTextField3.getText();
        String newpass= String.valueOf(jPasswordField2.getPassword());


            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/loginform?autoReconnect
=true&useSSL=false", "root", "root");
```

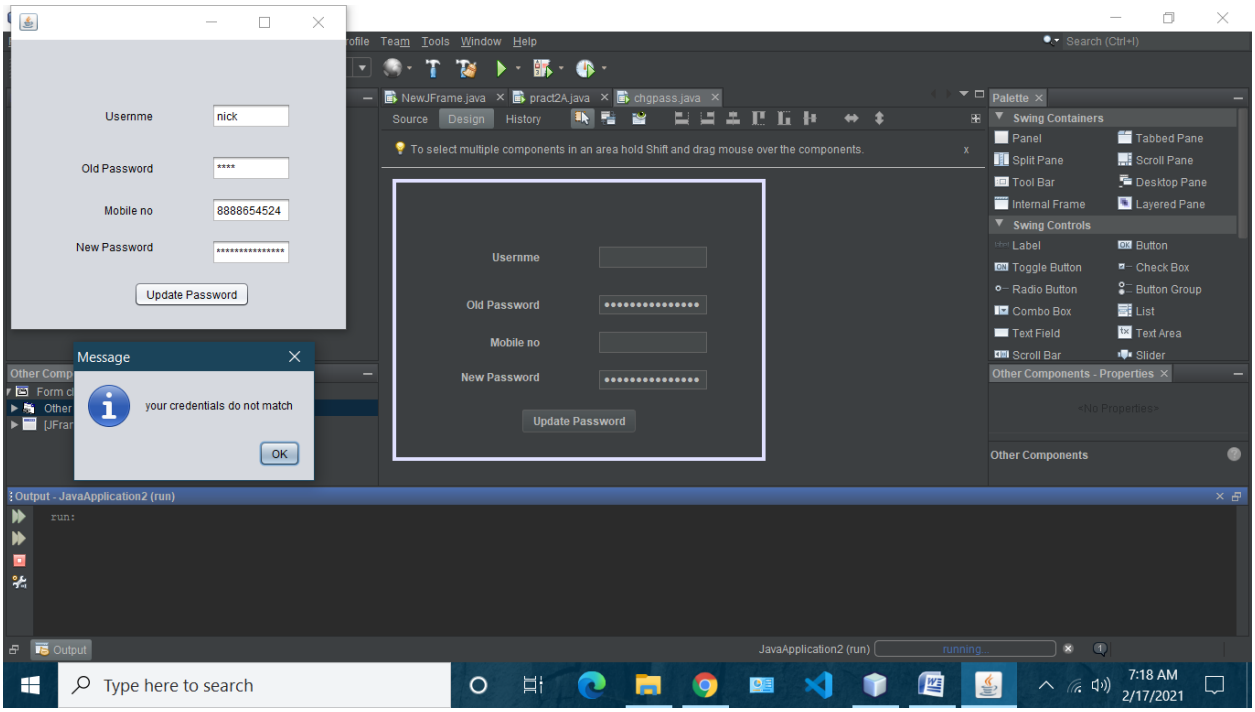
```
            Statement stmt =conn.createStatement();
            String sql= "select id from myrecord where username='"+ uname
                    + "' and password ='"+pass+"' and mobileno='"+mobileno+"';";
            ResultSet result=stmt.executeQuery(sql);
            if(result.next()){
                sql="update myrecord set password='"+newpass+"' where
id='"+result.getInt(1)+"';";
                stmt.executeUpdate(sql);
                JOptionPane.showMessageDialog(this,"your password has been updated");
            }
            else{
                JOptionPane.showMessageDialog(this,"your credentials do not match");
            }




        } catch (SQLException ex) {
            Logger.getLogger(pract2A.class.getName()).log(Level.SEVERE, null, ex);
        }

    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(chgpass.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(chgpass.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(chgpass.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(chgpass.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new chgpass().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JPasswordField jPasswordField2;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField3;
    // End of variables declaration
}
```

Output:


Usernme
nick
Old Password
Mobile no
8010531970
New Password
Update Password
Message
your password has been updated
OK
Palette
Swing Containers
Swing Controls
Other Components - Properties
Other Components
Type here to search
6:46 PM
2/15/2021


MySQL Shell
MySQL localhost:33060+ ssl loginform SQL > select * from myrecord;
id	username	password	mobileno
1	nick	nick	8010531970
2	nikhil	password	8888645622
2 rows in set (0.0004 sec)
MySQL localhost:33060+ ssl loginform SQL > select * from myrecord;
id	username	password	mobileno
1	nick	pass	8010531970
2	nikhil	password	8888645622
2 rows in set (0.0210 sec)
MySQL localhost:33060+ ssl loginform SQL >
Type here to search
6:47 PM
2/15/2021



Practical 3D: Delete Account

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author bot
 */
public class Pract2D extends javax.swing.JFrame {
```

```
/**
 * Creates new form Pract2D
 */
public Pract2D() {
    initComponents();
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jPasswordField1 = new javax.swing.JPasswordField();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Usernme");

    jLabel2.setText("Password");

    jLabel3.setText("Mobile no");

    jTextField1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jTextField1ActionPerformed(evt);
        }
    });

    jButton1.setText("Delete record");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jPasswordField1.setText("jPasswordField1");
```

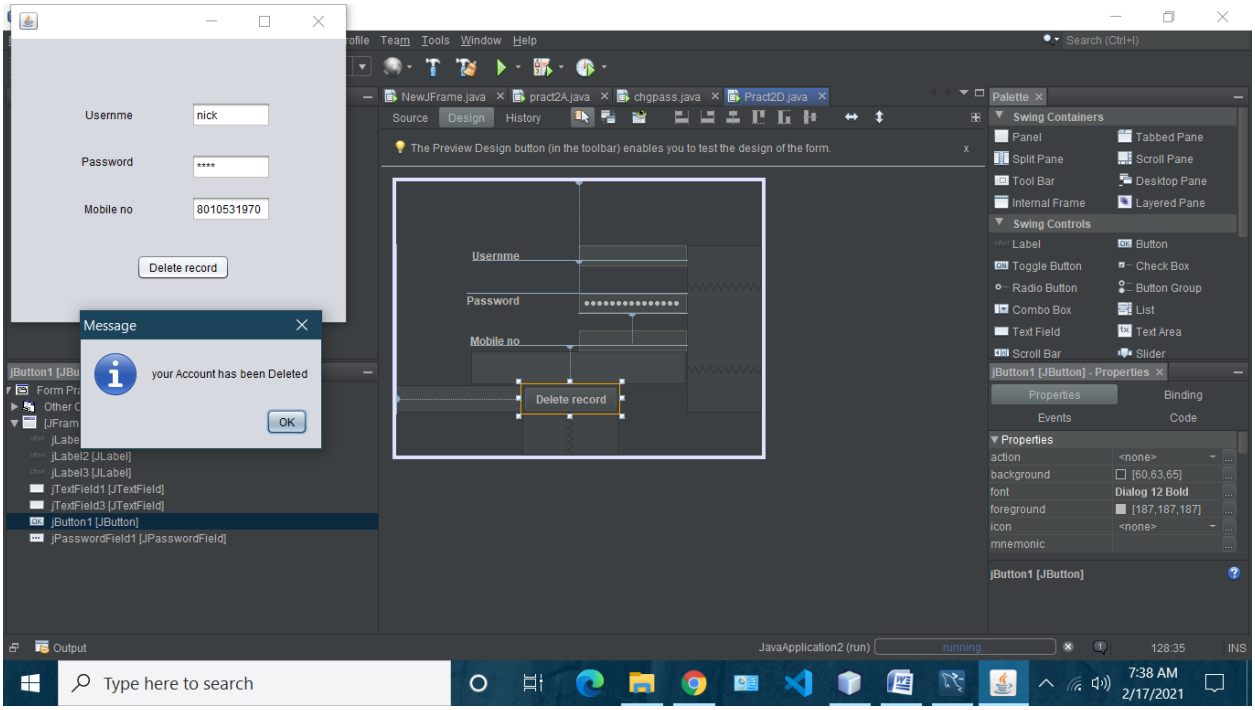
```
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(77, 77, 77)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                            .addComponent(jLabel3)
                            .addComponent(jLabel2)
                            .addComponent(jLabel1))
                        .addGap(64, 64, 64)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addComponent(jTextField1)
                            .addComponent(jTextField3)
                            .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(137, 137, 137)
                        .addComponent(jButton1)))
                .addContainerGap(82, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(69, 69, 69)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel1))
                .addGap(29, 29, 29)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel2))
                .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

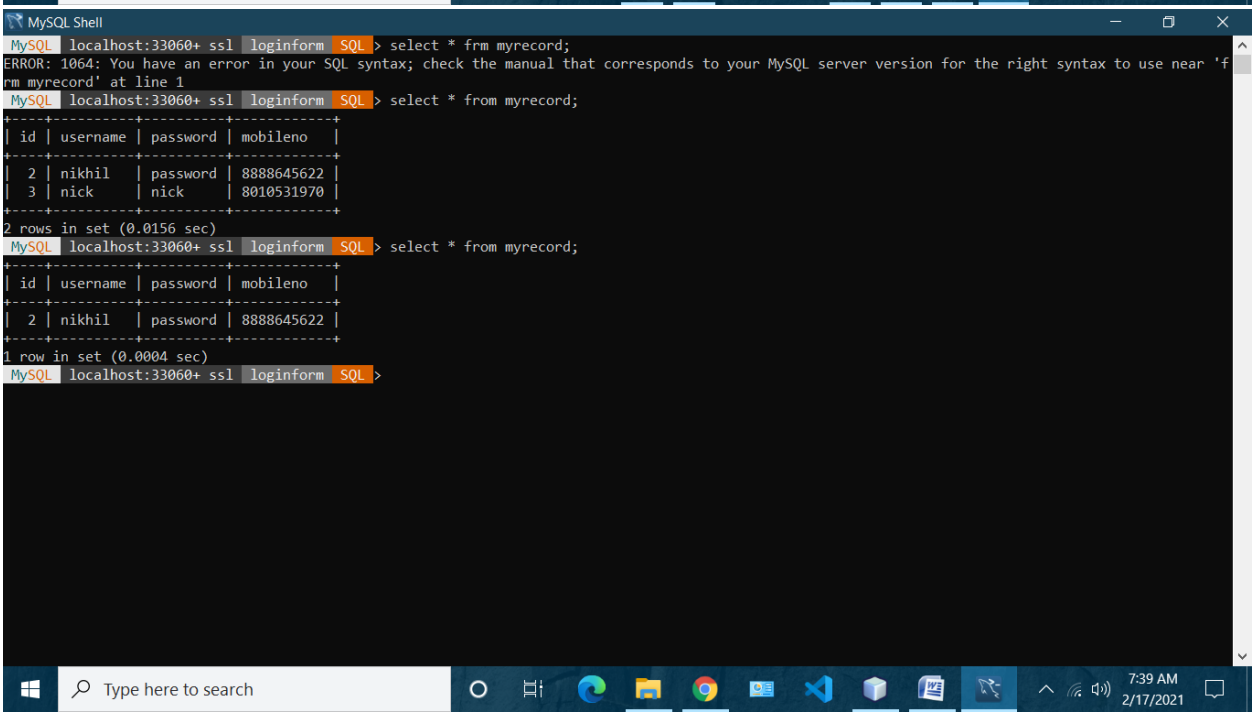
```
                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel3))
            .addGap(36, 36, 36)
            .addComponent(jButton1)
            .addContainerGap(46, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>

    private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
            String uname= jTextField1.getText();
            String pass= String.valueOf(jPasswordField1.getPassword());
            String mobileno= jTextField3.getText();


            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/loginform?autoReconnect
=true&useSSL=false", "root", "root");
            Statement stmt =conn.createStatement();
            String sql= "select id from myrecord where username='"+ uname
            + "' and password ='"+pass+"' and mobileno='"+mobileno+"';";
            ResultSet result=stmt.executeQuery(sql);
            if(result.next()){
                sql="Delete from myrecord where id='"+result.getInt(1)+"';";
                stmt.executeUpdate(sql);
                JOptionPane.showMessageDialog(this,"your Account has been Deleted");
            }
            else{
                JOptionPane.showMessageDialog(this,"Record does not exist");
            }

        } catch (SQLException ex) {
            Logger.getLogger(pract2A.class.getName()).log(Level.SEVERE, null, ex);
        }

    }

    /**
     * @param args the command line arguments
```

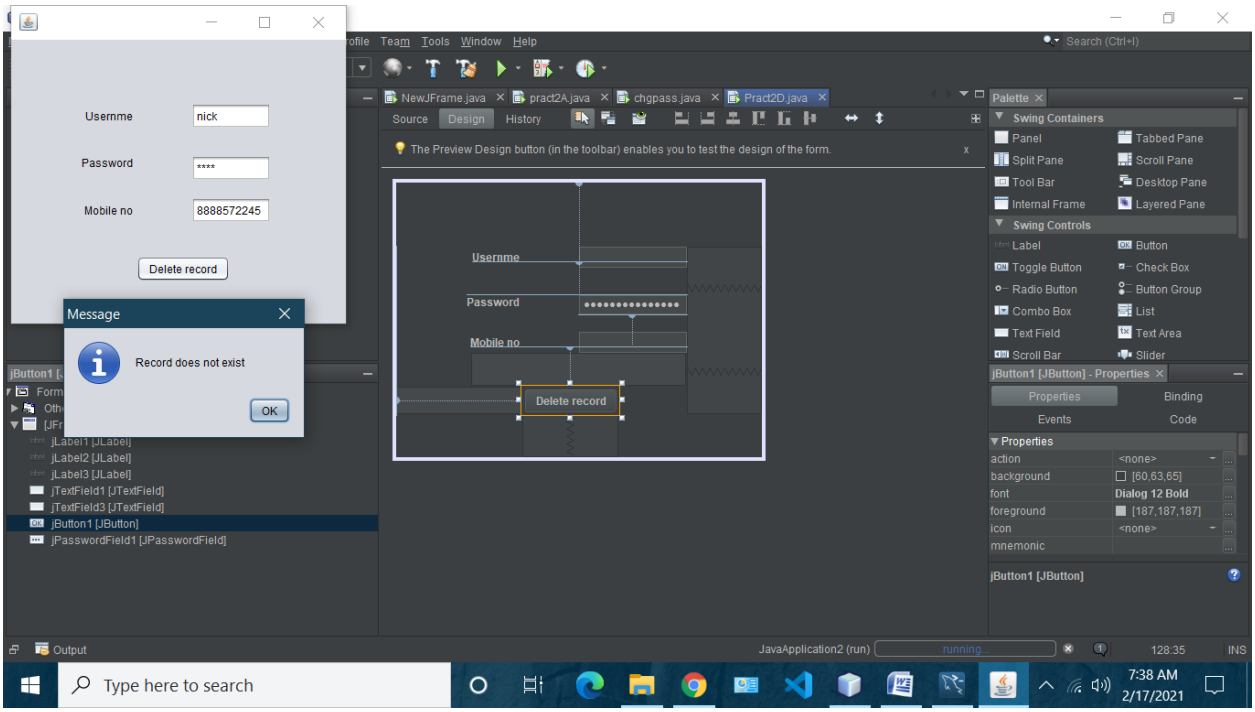
```
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Pract2D.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Pract2D.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Pract2D.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Pract2D.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Pract2D().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
```

```
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField jTextField3;
    // End of variables declaration
}
```

Output:






Usernme
nick
Password
****
Mobile no
8888572245
Delete record
Message
Record does not exist
OK
NewJFrame.java
pract2A.java
chgpass.java
Pract2D.java
Source
Design
History
The Preview Design button (in the toolbar) enables you to test the design of the form.
Usernme
Password
Mobile no
Delete record
Palette
Swing Containers
Panel
Tabbed Pane
Split Pane
Scroll Pane
Tool Bar
Desktop Pane
Internal Frame
Layered Pane
Swing Controls
Label
Button
Toggle Button
Check Box
Radio Button
Button Group
Combo Box
List
Text Field
Text Area
Scroll Bar
Slider
jButton1 [JButton] - Properties
Properties
Binding
Events
Code
Properties
action
background
font
foreground
icon
mnemonic
jButton1 [JButton]
jLabel1 [JLabel]
jLabel2 [JLabel]
jLabel3 [JLabel]
jTextField1 [JTextField]
jTextField3 [JTextField]
jButton1 [JButton]
jPasswordField1 [JPasswordField]
Output
JavaApplication2 (run)
running...
128:35
INS
Type here to search
7:38 AM
2/17/2021

Practical 3E

Aim: Develop business logic layer for Library Management System.

LibrarianDoa.java

```
import java.sql.*;
public class LibrarianDao {

	Connection con=null;
	public static int save(String name,String password,String email,String address,String
city,String contact){
		int status=0;
				try{
			Class.forName("com.mysql.jdbc.Driver");
		 con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","","")
			  ; PreparedStatement ps=con.prepareStatement("insert into
		    librarian(name,password,email,address,city,contact)
		 values(?,?,?,?,?,?)"); ps.setString(1,name);
			ps.setString(2,password);
			ps.setString(3,email);
			ps.setString(4,address);
			ps.setString(5,city);
			ps.setString(6,contact);
			 status=ps.executeUpdate();
			 con.close();
		 }catch(Exception e){System.out.println(e);}
		return status;
	}
	public static int delete(int id){
		int status=0;
		try{
			Class.forName("com.mysql.jdbc.Driver");
		con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","","")
			; PreparedStatement ps=con.prepareStatement("delete from librarian
where id=?");
			ps.setInt(1,id);
			status=ps.executeUpdate();
			con.close();
		 }catch(Exception e){System.out.println(e);}
		return status;
	}

	public static boolean validate(String name,String password){
		boolean status=false;
		try{
			Connection con=DB.getConnection();
			 PreparedStatement ps=con.prepareStatement("select * from librarian
where name=? and password=?");
			ps.setString(1,name);
			ps.setString(2,password);
			ResultSet rs=ps.executeQuery();
```

```
                status=rs.next();
                con.close();
            }catch(Exception e){System.out.println(e);}
            return status;
        }

}
```

LibrarianForm.java

```
import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JPasswordField;
import
javax.swing.LayoutStyle.ComponentPlacement;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class LibrarianForm extends JFrame {
        static LibrarianForm frame;
        private JPanel contentPane;
        private JTextField textField;
        private JTextField textField_1;
        private JTextField textField_2;
        private JTextField textField_3;
        private JTextField textField_4;
        private JPasswordField passwordField;

        /**
         * Launch the application.
         */
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        frame = new LibrarianForm();
                                        frame.setVisible(true);
                                } catch (Exception e) {
```

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

    /**
     * Create the frame.
     */
    public LibrarianForm() {
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE)
            ; setBounds(100, 100, 450, 450);
            contentPane = new JPanel();
            contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
            setContentPane(contentPane);

            JLabel lblAddLibrarian = new JLabel("Add Librarian");
            lblAddLibrarian.setForeground(Color.DARK_GRAY);
            lblAddLibrarian.setFont(new Font("Tahoma", Font.PLAIN,
            22));

            JLabel lblName = new JLabel("Name:");

            JLabel lblPassword = new JLabel("Password:");

            JLabel lblEmail = new JLabel("Email:");

            JLabel lblAddress = new JLabel("Address:");

            JLabel lblCity = new JLabel("City:");

            JLabel lblContactNo = new JLabel("Contact No:");

            textField = new JTextField();
            textField.setColumns(10);

            textField_1 = new JTextField();
            textField_1.setColumns(10);

            textField_2 = new JTextField();
            textField_2.setColumns(10);

            textField_3 = new JTextField();
            textField_3.setColumns(10);

            textField_4 = new JTextField();
            textField_4.setColumns(10);

            passwordField = new JPasswordField();
```

```
JButton btnNewButton = new JButton("Add Librarian");
btnNewButton.addActionListener(new ActionListener() {
	public void actionPerformed(ActionEvent e) {
	String name=textField.getText();
	String password=String.valueOf(passwordField.getPassword());
	String email=textField_1.getText();
	String address=textField_2.getText();
	String city=textField_3.getText();
	String contact=textField_4.getText();

	int i=LibrarianDao.save(name, password, email, address, city,
	contact); if(i>0){

JOptionPane.showMessageDialog(LibrarianForm.this,"Librarian added
successfully!");
		AdminSuccess.main(new String[]{});
		frame.dispose();

	}else{
		JOptionPane.showMessageDialog(LibrarianForm.this,"Sorry,
unable to save!");
	}
	}
});
btnNewButton.setForeground(Color.DARK_GRAY);

JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
	public void actionPerformed(ActionEvent e) {
	AdminSuccess.main(new String[]{});
	frame.dispose();
	}
});
GroupLayout gl_contentPane = new GroupLayout(contentPane);
gl_contentPane.setHorizontalGroup(
	gl_contentPane.createParallelGroup(Alignment.TRAILING)
		.addGroup(gl_contentPane.createSequentialGroup()
			.addGap(20)

.addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING,
		false) .addComponent(lblPassword,
GroupLayout.DEFAULT_SIZE, 62, Short.MAX_VALUE)
		.addComponent(lblName)
		 .addComponent(lblEmail,
GroupLayout.PREFERRED_SIZE, 31,
		GroupLayout.PREFERRED_
		SIZE)
		.addComponent(lblAddress,
	GroupLayout.DEFAULT_SIZE, GroupLayout.DEFAULT_SIZE,
		Short.MAX_VALUE) .addComponent(lblCity,
```

```
GroupLayout.PREFERRED_SIZE, 31, GroupLayout.PREFERRED_SIZE)
                                        .addComponent(lblContactNo,
GroupLayout.DEFAULT_SIZE, GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                                    .addGap(58)

            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING,
                                        false) .addComponent(textField_4,
GroupLayout.DEFAULT_SIZE, 177, Short.MAX_VALUE)
                                        .addComponent(textField_3,
GroupLayout.DEFAULT_SIZE, 177, Short.MAX_VALUE)
                                        .addComponent(textField_2,
GroupLayout.DEFAULT_SIZE, 177, Short.MAX_VALUE)
                                        .addComponent(textField_1,
GroupLayout.DEFAULT_SIZE, 177, Short.MAX_VALUE)
                                        .addComponent(textField,
GroupLayout.DEFAULT_SIZE, 177, Short.MAX_VALUE)
                                        .addComponent(passwordField))
                                    .addContainerGap(107, Short.MAX_VALUE))
                                .addGroup(gl_contentPane.createSequentialGroup()
                                    .addContainerGap(151, Short.MAX_VALUE)
                                    .addComponent(lblAddLibrarian)
                                    .addGap(144))
                                .addGroup(gl_contentPane.createSequentialGroup()
                                    .addContainerGap(160, Short.MAX_VALUE)
                                     .addComponent(btnNewButton,
                        GroupLayout.PREFERRED_SIZE, 131,
                    GroupLayout.PREFERRED_SIZE) .addGap(133))
                                .addGroup(gl_contentPane.createSequentialGroup()
                                    .addContainerGap(200, Short.MAX_VALUE)
                                    .addComponent(btnBack)
                                    .addGap(169))
                    );
                    gl_contentPane.setVerticalGroup(
                            gl_contentPane.createParallelGroup(Alignment.LEADING)
                                .addGroup(gl_contentPane.createSequentialGroup()
                                    .addComponent(lblAddLibrarian)
                                    .addGap(18)

            .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING)

            .addGroup(gl_contentPane.createSequentialGroup()
                                                .addComponent(lblName)
                                                .addGap(18)
                                                .addComponent(lblPassword))

            .addGroup(gl_contentPane.createSequentialGroup()
                                                 .addComponent(textField,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE)
```

```
		.addPreferredGap(ComponentPlacement.UNRELATED)
                                                .addComponent(passwordField,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE)))
                                        .addGap(18)

		.addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE
                                                ) .addComponent(lblEmail)
                                                 .addComponent(textField_1,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE))
                                        .addGap(18)

		.addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE
                                                ) .addComponent(lblAddress)
                                                 .addComponent(textField_2,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE))
                                        .addGap(18)

		.addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE
                                                ) .addComponent(lblCity)
                                                 .addComponent(textField_3,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE))
                                        .addGap(18)

		.addGroup(gl_contentPane.createParallelGroup(Alignment.BASELINE
                                                ) .addComponent(lblContactNo)
                                                 .addComponent(textField_4,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE))
                                        .addGap(18)
                                         .addComponent(btnNewButton,
GroupLayout.PREFERRED_SIZE, 36, GroupLayout.PREFERRED_SIZE)
                                        .addPreferredGap(ComponentPlacement.RELATED,
57, Short.MAX_VALUE)
                                        .addComponent(btnBack)
                                        .addGap(19))
                );
                contentPane.setLayout(gl_contentPane);
        }

}
```

ViewLibrarian.java

```
import java.awt.BorderLayout;
import java.awt.EventQueue;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
```

```
import java.sql.ResultSetMetaData;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.border.EmptyBorder;
import javax.swing.JTable;

public class ViewLibrarian extends JFrame {

	private JPanel contentPane;
	private JTable table;

	public static void main(String[] args) {
		EventQueue.invokeLater(new Runnable() {
			public void run() {
				try {
					ViewLibrarian frame = new ViewLibrarian();
					frame.setVisible(true);
				} catch (Exception e) {
					e.printStackTrace();
				}
			}
		});
	}

	/**
	 * Create the frame.
	 */
	public ViewLibrarian() {
		setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
		setBounds(100, 100, 450, 300);
		contentPane = new JPanel();
		contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
		contentPane.setLayout(new BorderLayout(0, 0));
		setContentPane(contentPane);
		String data[][]=null;
		String column[]=null;
		try{
			Connection con=DB.getConnection();
			 PreparedStatement ps=con.prepareStatement("select * from
librarian",ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE)
				; ResultSet rs=ps.executeQuery();

			ResultSetMetaData rsmd=rs.getMetaData();
			int cols=rsmd.getColumnCount();
			column=new String[cols];
			for(int i=1;i<=cols;i++){
				column[i-1]=rsmd.getColumnName(i);
			}
```

```
                        rs.last();
                        int rows=rs.getRow();
                        rs.beforeFirst();

                        data=new String[rows][cols];
                        int count=0;
                        while(rs.next()){
                                for(int i=1;i<=cols;i++){
                                        data[count][i-1]=rs.getString(i);
                                }
                                count++;
                        }
                        con.close();
                }catch(Exception e){System.out.println(e);}

                table = new JTable(data,column);
                JScrollPane sp=new JScrollPane(table);

                contentPane.add(sp, BorderLayout.CENTER);
        }

}
```

DeleteLibrarian.java

```
import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.GroupLayout;
import javax.swing.GroupLayout.Alignment;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class DeleteLibrarian extends JFrame {
        static DeleteLibrarian frame;
        private JPanel contentPane;
        private JTextField textField;

        /**
         * Launch the application.
         */
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
```

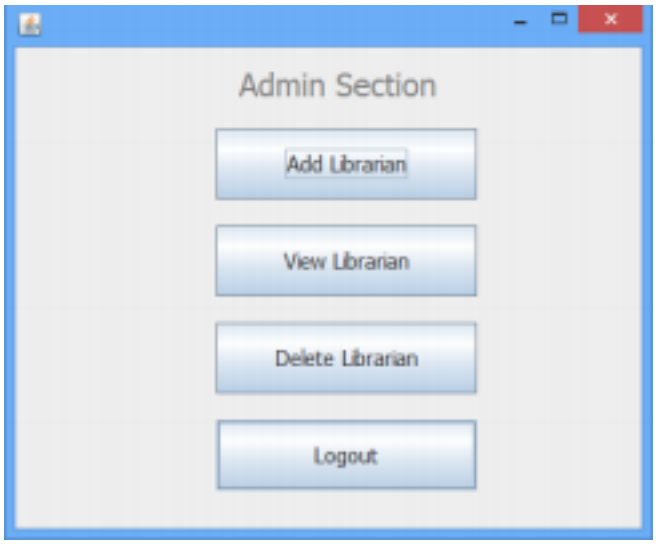
```
                public void run() {
                        try {
                                frame = new DeleteLibrarian();
                                frame.setVisible(true);
                        } catch (Exception e) {
                                e.printStackTrace();
                        }
                }
        });
}

/**
 * Create the frame.
 */
public DeleteLlibrarian() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(100, 100, 450, 300);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);

        JLabel lblEnterId = new JLabel("Enter Id:");

        textField = new JTextField();
        textField.setColumns(10);

        JButton btnDelete = new JButton("Delete");
        btnDelete.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e) {
                        String sid=textField.getText();
                        if(sid==null||sid.trim().equals("")){

            JOptionPane.showMessageDialog(DeleteLibrarian.this,"Id can't be
                                        blank"); }else{
                                        int id=Integer.parseInt(sid);
                                        int i=LibrarianDao.delete(id);
                                        if(i>0){

        JOptionPane.showMessageDialog(DeleteLibrarian.this,"Record deleted
successfully!");
                                        }else{

            JOptionPane.showMessageDialog(DeleteLibrarian.this,"Unable to delete given
                                                id!"); }
                        }
                }
        });
        btnDelete.setFont(new Font("Tahoma", Font.PLAIN, 13));
        JButton btnNewButton = new JButton("Back");
        btnNewButton.addActionListener(new ActionListener() {
```

```
                public void actionPerformed(ActionEvent e) {
                        AdminSuccess.main(new String[]{});
                        frame.dispose();
                }
        });
        btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 13));
        GroupLayout gl_contentPane = new
        GroupLayout(contentPane);
        gl_contentPane.setHorizontalGroup(
                gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addGroup(gl_contentPane.createSequentialGroup()
                                .addGap(39)
                                .addComponent(lblEnterId)
                                .addGap(57)
                                 .addComponent(textField,
GroupLayout.PREFERRED_SIZE, 178, GroupLayout.PREFERRED_SIZE)
                                .addContainerGap(107,
                                Short.MAX_VALUE))
                         .addGroup(Alignment.TRAILING,
gl_contentPane.createSequentialGroup()
                                .addContainerGap(175, Short.MAX_VALUE)
                                 .addComponent(btnDelete,
                GroupLayout.PREFERRED_SIZE, 109,
            GroupLayout.PREFERRED_SIZE) .addGap(140))
                         .addGroup(Alignment.TRAILING,
gl_contentPane.createSequentialGroup()
                                .addContainerGap(322, Short.MAX_VALUE)
                                 .addComponent(btnNewButton,
                GroupLayout.PREFERRED_SIZE, 92,
          GroupLayout.PREFERRED_SIZE) .addContainerGap())
        );
        gl_contentPane.setVerticalGroup(
                gl_contentPane.createParallelGroup(Alignment.LEADING)
                        .addGroup(gl_contentPane.createSequentialGroup()
                                .addGap(19)

      .addGroup(gl_contentPane.createParallelGroup(Alignment.LEADING
                                        ) .addComponent(textField,
GroupLayout.PREFERRED_SIZE, GroupLayout.DEFAULT_SIZE,
GroupLayout.PREFERRED_SIZE)
                                        .addComponent(lblEnterId))
                                .addGap(33)
                                 .addComponent(btnDelete,
                GroupLayout.PREFERRED_SIZE, 33,
            GroupLayout.PREFERRED_SIZE) .addGap(43)
                                .addComponent(btnNewButton)
                                .addContainerGap(78, Short.MAX_VALUE))
        );
        contentPane.setLayout(gl_contentPane);
    }
```

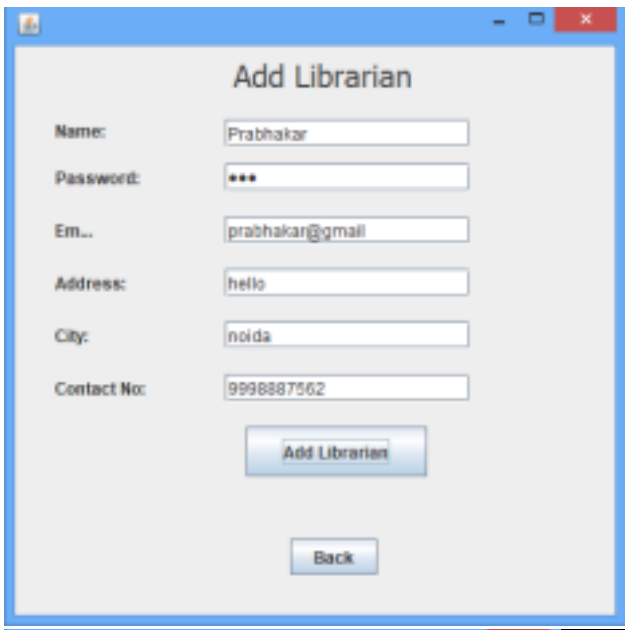
}

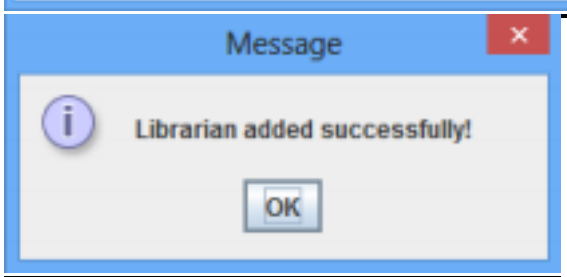
Output

Admin Module after login

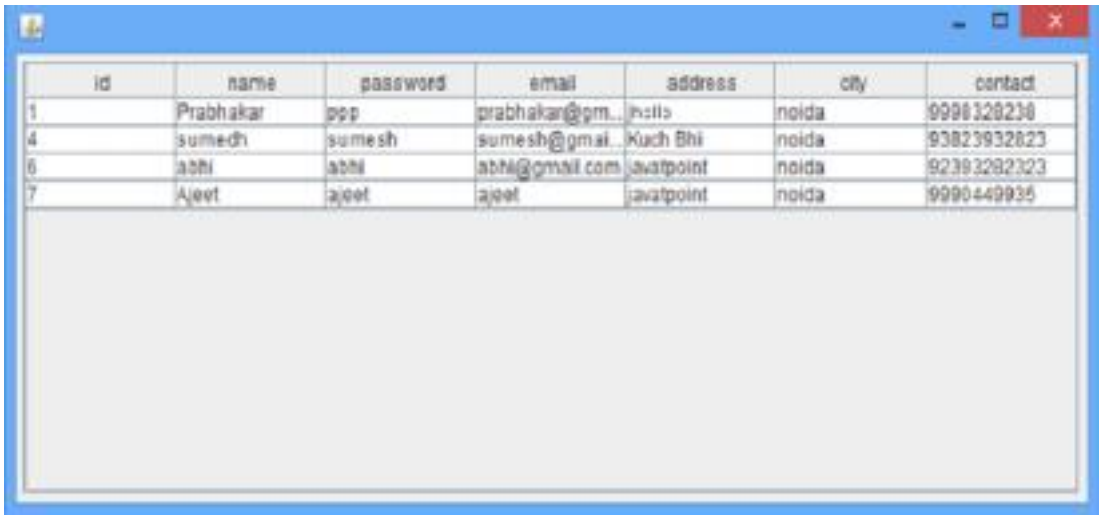


Add Librarian



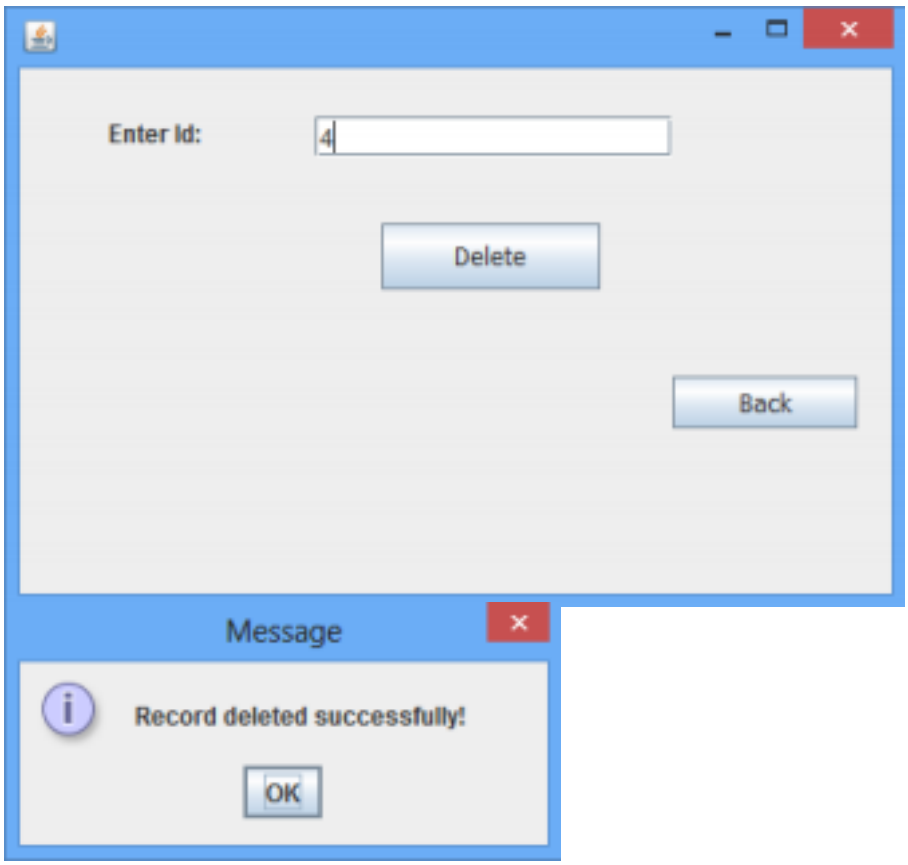


View Librarian



id	name	password	email	address	city	contact
1	Prabhakar	ppp	prabhakar@gm...	hsiis	noida	9998320230
4	sumedh	sumesh	sumesh@gmail...	Kuch Bhi	noida	93823932823
6	abhi	abhi	abhi@gmail.com	javatpoint	noida	92393282323
7	Ajeet	ajeet	ajeet	javatpoint	noida	9990449935

Delete Librarian



Similarly we can inculcate book management and Librarian update functionalities in the Librarian module.