



NUML

National University of Modern Languages

OOP

BS-Software Engineering 2nd-E

Hamza Mehmood

Roll# SP-21-110
NUML-S21-2352 9

Title: Project Report

Submitted to:
Mam. Sadaf

National University of Modern Languages

Object Oriented Programming

Student Database Management System

Source Code of Login Form:

```
/**  
 * @author Hamza._.Dezire  
 * SP-21-110  
 * NUML-S21-23529  
 * BS-SOFTWARE ENGINEERING  
 */  
  
import java.awt.HeadlessException;  
import java.sql.Connection;
```

FINAL PROJECT REPORT

```
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

    public Login() {

        initComponents();

    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        pass = new javax.swing.JPasswordField();
        user = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
    }
}
```

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```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);  
setTitle("Student Data Base Management System");  
setBackground(new java.awt.Color(153, 153, 153));  
setFont(new java.awt.Font("Adlinnaka Bold", 0, 12)); // NOI18N  
setResizable(false);
```

```
jPanel1.setBackground(new java.awt.Color(102, 102, 255));
```

```
jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createBevel  
Border(javax.swing.border.BevelBorder.LOWERED), "Login",  
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,  
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adlinnaka Bold", 0, 18), new  
java.awt.Color(255, 255, 255))); // NOI18N
```

```
jLabel1.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
```

```
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/emailhh.png"))); //  
NOI18N
```

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

```
jLabel2.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
```

```
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
```

```
jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/password.png"))); //  
NOI18N
```

```
jLabel2.setText("Password");
```

```
user.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        userActionPerformed(evt);  
    }  
})
```

FINAL PROJECT REPORT

```
});
```

```
        jButton1.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\New  
folder\\StudentDBMS\\src\\Images\\icons8-enter-24.png")); // NOI18N
```

```
        jButton1.setText("LOGIN");
```

```
        jButton1.addActionListener(new java.awt.event.ActionListener() {
```

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

```
                jButton1ActionPerformed(evt);
```

```
            }
```

```
        });
```

```
        jButton2.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\New  
folder\\StudentDBMS\\src\\Images\\delete_16x16.gif")); // NOI18N
```

```
        jButton2.setText("CANCEL");
```

```
        jButton2.addActionListener(new java.awt.event.ActionListener() {
```

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

```
                jButton2ActionPerformed(evt);
```

```
            }
```

```
        });
```

```
        jLabel3.setFont(new java.awt.Font("Adlinnaka Bold", 0, 24)); // NOI18N
```

```
        jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/download.png"))); //  
NOI18N
```

```
        jLabel4.setFont(new java.awt.Font("Adlinnaka Bold", 0, 24)); // NOI18N
```

```
        jLabel4.setForeground(new java.awt.Color(255, 255, 255));
```

```
        jLabel4.setText("Welcome to Login Page");
```

```
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
```

[illegible]

FINAL PROJECT REPORT

```
.addComponent(jLabel4)))  
.addGap(72, 72, 72))  
);  
jPanel1Layout.setVerticalGroup(  
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
.addGroup(jPanel1Layout.createSequentialGroup()  
.addContainerGap()  
.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 98,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
.addGap(31, 31, 31)  
.addComponent(jLabel4)  
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 32,  
Short.MAX_VALUE)  
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
.addComponent(user, javax.swing.GroupLayout.PREFERRED_SIZE, 28,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
.addComponent(jLabel1))  
.addGap(18, 18, 18)  
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
.addComponent(pass, javax.swing.GroupLayout.PREFERRED_SIZE, 28,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
.addComponent(jLabel2))  
.addGap(38, 38, 38)  
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
.addGap(76, 76, 76))  
);
```

FINAL PROJECT REPORT

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(10, 10, 10)
        )
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGap(10, 10, 10)
        )
);

setSize(new java.awt.Dimension(662, 512));
setLocationRelativeTo(null);
} // </editor-fold>
```

Data Base Code

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

    Connection con = null;
    PreparedStatement pst = null;
```


FINAL PROJECT REPORT

```
ResultSet rs = null;

try {
    Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
    con = DriverManager.getConnection("jdbc:ucanaccess://F:\\Student.accdb");
    String sql = "select * from Login where Email='" + user.getText() + "'and Password='" +
pass.getText() + "'";
    pst = con.prepareStatement(sql);

    rs = pst.executeQuery();
    if (rs.next()) {
        JOptionPane.showMessageDialog(null, "Login Successfully");

        MainFrane e = new MainFrane();
        e.setVisible(true);
        this.setVisible(false);

    } else {

        JOptionPane.showMessageDialog(null, "Invalid Username or Password");
    }
} catch (HeadlessException | ClassNotFoundException | SQLException e) {
    JOptionPane.showMessageDialog(null, e);
}
```

FINAL PROJECT REPORT

```
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    System.exit(0);
```

```
}
```

```
private void userActionPerformed(java.awt.event.ActionEvent evt) {
```

```
}
```

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

```
    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(Login.class.getName()).log(java.util.logging.Level.SEVERE,  
        null, ex);
```

```
    } catch (InstantiationException ex) {
```

FINAL PROJECT REPORT

```
java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);
```

```
    } catch (IllegalAccessException ex) {
```

```
java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);
```

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);
```

```
    }
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

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

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JButton jButton2;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JLabel jLabel2;
```

```
private javax.swing.JLabel jLabel3;
```

```
private javax.swing.JLabel jLabel4;
```

```
private javax.swing.JPanel jPanel1;
```

```
private javax.swing.JPasswordField pass;
```

FINAL PROJECT REPORT

```
private javax.swing.JTextField user;

// End of variables declaration

private static class password {

    private static String getText() {
        throw new UnsupportedOperationException("Not supported yet.");
    }

    public p/**
 * @author Hamza._.Dezire
 *SP-21-110
 * NUML-S21-23529
 * BS-SOFTWARE ENGINEERING
 */

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

    public Login() {
```

FINAL PROJECT REPORT

```
initComponents();

}

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    pass = new javax.swing.JPasswordField();
    user = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("Student Data Base Management System");
    setBackground(new java.awt.Color(153, 153, 153));
    setFont(new java.awt.Font("Adlinnaka Bold", 0, 12)); // NOI18N
    setResizable(false);

    jPanel1.setBackground(new java.awt.Color(102, 102, 255));

    jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(javax.swing.BorderFactory.createBevel
    Border(javax.swing.border.BevelBorder.LOWERED),
    "Login",
```

FINAL PROJECT REPORT

```
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,  
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adlinnaka Bold", 0, 18), new  
java.awt.Color(255, 255, 255)); // NOI18N
```

```
jLabel1.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N  
jLabel1.setForeground(new java.awt.Color(255, 255, 255));  
jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/emailhh.png"))); //  
NOI18N
```

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

```
jLabel2.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N  
jLabel2.setForeground(new java.awt.Color(255, 255, 255));  
jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/password.png"))); //  
NOI18N
```

```
jLabel2.setText("Password");
```

```
user.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        userActionPerformed(evt);  
    }  
});
```

```
jButton1.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\New  
folder\\StudentDBMS\\src\\Images\\icons8-enter-24.png")); // NOI18N
```

```
jButton1.setText("LOGIN");
```

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

FINAL PROJECT REPORT

```
        jButton2.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\New  
folder\\StudentDBMS\\src\\Images\\delete_16x16.gif")); // NOI18N
```

```
        jButton2.setText("CANCEL");
```

```
        jButton2.addActionListener(new java.awt.event.ActionListener() {
```

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

```
                jButton2ActionPerformed(evt);
```

```
            }
```

```
        });
```

```
        jLabel3.setFont(new java.awt.Font("Adlinnaka Bold", 0, 24)); // NOI18N
```

```
        jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/download.png"))); //  
NOI18N
```

```
        jLabel4.setFont(new java.awt.Font("Adlinnaka Bold", 0, 24)); // NOI18N
```

```
        jLabel4.setForeground(new java.awt.Color(255, 255, 255));
```

```
        jLabel4.setText("Welcome to Login Page");
```

```
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
```

```
        jPanel1.setLayout(jPanel1Layout);
```

```
        jPanel1Layout.setHorizontalGroup(
```

```
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
                        .addGroup(jPanel1Layout.createSequentialGroup()
```

```
                            .addGap(136, 136, 136)
```

```
                            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 113,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                            .addGap(31, 31, 31)
```

FINAL PROJECT REPORT

```

        .addComponent(jButton2,          javax.swing.GroupLayout.PREFERRED_SIZE,      147,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(jPanel1Layout.createSequentialGroup())

        .addGap(104, 104, 104)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup())

            .addComponent(jLabel2)

            .addGap(57, 57, 57)

            .addComponent(pass,          javax.swing.GroupLayout.PREFERRED_SIZE,      191,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGroup(jPanel1Layout.createSequentialGroup())

                .addComponent(jLabel1)

                .addGap(96, 96, 96)

                .addComponent(user,      javax.swing.GroupLayout.PREFERRED_SIZE,      191,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addComponent(jLabel3,      javax.swing.GroupLayout.DEFAULT_SIZE,      438,
Short.MAX_VALUE)))

        .addGroup(jPanel1Layout.createSequentialGroup())

            .addGap(141, 141, 141)

            .addComponent(jLabel4)))

        .addGap(72, 72, 72))

    );

    jPanel1Layout.setVerticalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup())

            .addContainerGap()

            .addComponent(jLabel3,      javax.swing.GroupLayout.PREFERRED_SIZE,      98,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(31, 31, 31)

```


FINAL PROJECT REPORT

```
.addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,      32,
Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(user,      javax.swing.GroupLayout.PREFERRED_SIZE,      28,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel1))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(pass,      javax.swing.GroupLayout.PREFERRED_SIZE,      28,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jLabel2))

.addGap(38, 38, 38)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1,      javax.swing.GroupLayout.PREFERRED_SIZE,      40,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jButton2,      javax.swing.GroupLayout.PREFERRED_SIZE,      40,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(76, 76, 76))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGap(10, 10, 10)
    )
);
```

FINAL PROJECT REPORT

```
);  
  
layout.setVerticalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .addContainerGap()  
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
            .addContainerGap()  
        );  
  
setSize(new java.awt.Dimension(662, 512));  
setLocationRelativeTo(null);  
} // </editor-fold>  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
  
    Connection con = null;  
    PreparedStatement pst = null;  
    ResultSet rs = null;  
  
    try {  
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");  
        con = DriverManager.getConnection("jdbc:ucanaccess://F:\\\\Student.accdb");  
        String sql = "select * from Login where Email='" + user.getText() + "'and Password='" +  
pass.getText() + "'";  
        pst = con.prepareStatement(sql);  
  
        rs = pst.executeQuery();
```

FINAL PROJECT REPORT

```
if (rs.next()) {  
    JOptionPane.showMessageDialog(null, "Login Successfully");  
  
    MainFrane e = new MainFrane();  
    e.setVisible(true);  
    this.setVisible(false);  
  
} else {  
  
    JOptionPane.showMessageDialog(null, "Invalid Username or Password");  
}  
} catch (HeadlessException | ClassNotFoundException | SQLException e) {  
    JOptionPane.showMessageDialog(null, e);  
  
}  
  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    System.exit(0);  
}  
  
private void userActionPerformed(java.awt.event.ActionEvent evt) {  
  
}
```

FINAL PROJECT REPORT

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

    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(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (InstantiationException ex) {

        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (IllegalAccessException ex) {

        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);

    }

    java.awt.EventQueue.invokeLater(new Runnable() {

        public void run() {

            new Login().setVisible(true);

        }

    })

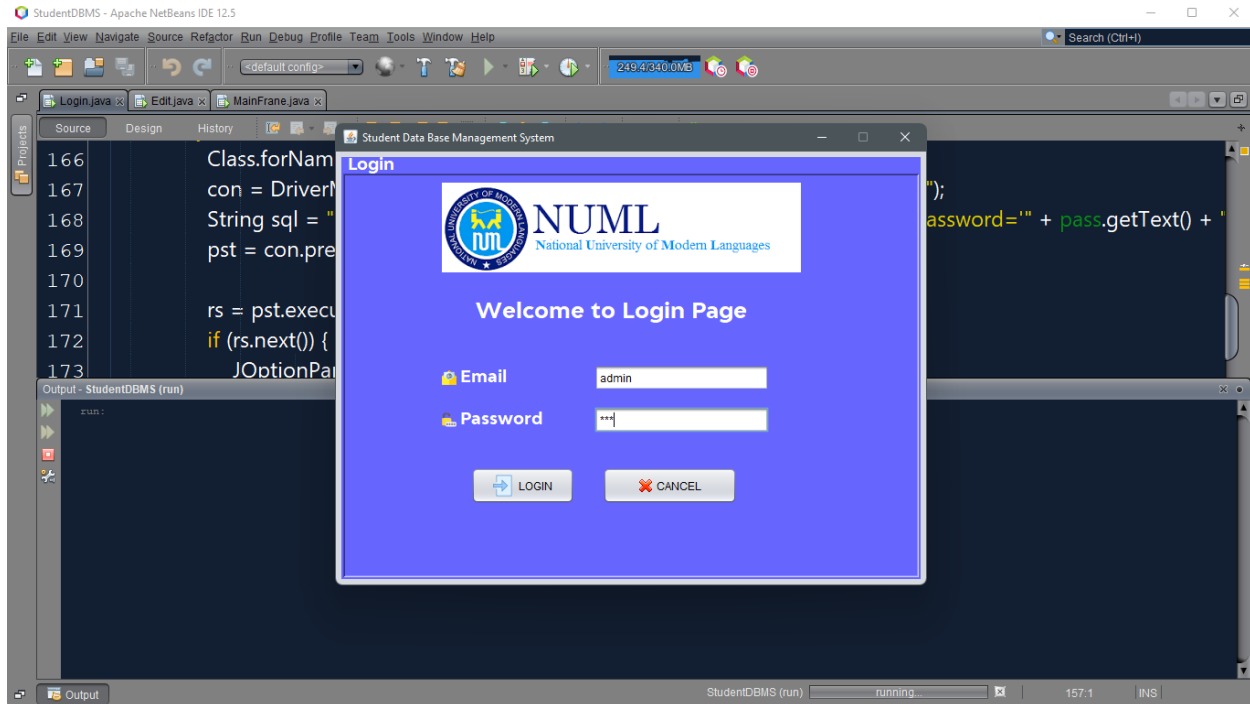
}
```

FINAL PROJECT REPORT

```
    });  
}  
  
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPasswordField pass;  
private javax.swing.JTextField user;  
// End of variables declaration  
  
private static class password {  
  
    private static String getText() {  
        throw new UnsupportedOperationException("Not supported yet.");  
    }  
  
    public password() {  
    }  
}  
}password() {  
    }  
}  
}
```

FINAL PROJECT REPORT

OUTPUT



Source Code of HOME PAGE:

```
/**  
 * @author Hamza._.Dezire  
 * SP-21-110  
 * NUML-S21-23529  
 * BS-SOFTWARE ENGINEERING  
 */  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;
```

FINAL PROJECT REPORT

```
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.util.Vector;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

public class MainFrane extends javax.swing.JFrame {

    public MainFrane() {
        initComponents();
        tableupdate();}
}
```

Data Base Code

```
Connection con;
PreparedStatement pst;
ResultSet rs;

public void tableupdate() {
    int c;
    try {
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
        Connection con =
DriverManager.getConnection("jdbc:ucanaccess://F:/Student.accdb");
        PreparedStatement pst = con.prepareStatement("select * from Studentt");
```

FINAL PROJECT REPORT

```
rs = pst.executeQuery();
ResultSetMetaData rsd = rs.getMetaData();
c = rsd.getColumnCount();
DefaultTableModel dft = (DefaultTableModel) jTable1.getModel();
dft.setRowCount(0);
while (rs.next()) {

    Vector v2 = new Vector();
    for (int i = 1; i <= c; i++) {
        v2.add(rs.getString("ID"));
        v2.add(rs.getString("StudentName"));
        v2.add(rs.getString("Phone"));
        v2.add(rs.getString("Semester"));
    }
    dft.addRow(v2);
}

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

}

@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
```


FINAL PROJECT REPORT

```
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    txtid = new javax.swing.JTextField();
    txtname = new javax.swing.JTextField();
    txtphone = new javax.swing.JTextField();
    txtsemester = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("STUDENT DBMS-HOME");
    setResizable(false);

    jPanel1.setBackground(new java.awt.Color(204, 204, 255));

    jPanel1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.LOWERED));

    jLabel1.setFont(new java.awt.Font("Adlinnaka Bold", 1, 24)); // NOI18N
    jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/icons8-students-40.png"))); // NOI18N
```

FINAL PROJECT REPORT

```
jLabel1.setText("Student DataBase Management System");

jLabel2.setFont(new java.awt.Font("Adlinnaka Bold", 0, 14)); // NOI18N
jLabel2.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\Project
Src\\Java v1\\src\\main\\icons8-eye-24.png")); // NOI18N
jLabel2.setText("ID");

jLabel3.setFont(new java.awt.Font("Adlinnaka Bold", 0, 14)); // NOI18N
jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/vg.png"))); // NOI18N
jLabel3.setText("Student Name");

jLabel4.setFont(new java.awt.Font("Adlinnaka Bold", 0, 14)); // NOI18N
jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/sm.png"))); // NOI18N
jLabel4.setText("Phone No");

jLabel5.setFont(new java.awt.Font("Adlinnaka Bold", 0, 14)); // NOI18N
jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/mnk.png"))); //
NOI18N
jLabel5.setText("Semester");

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

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
```

FINAL PROJECT REPORT

```
{null, null, null, null},
{null, null, null, null},
{null, null, null, null}
},
new String [] {
    "ID", "Student Name", "Phone No", "Semester"
}
){
    Class[] types = new Class [] {
        java.lang.Integer.class, java.lang.String.class, java.lang.Integer.class, java.lang.Integer.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jScrollPane1.setViewportView(jTable1);

jButton1.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/edit.png"))); //
NOI18N
jButton1.setText("Update");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```

jButton2.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N

jButton2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/icons8-plus-24.png"))); // NOI18N

jButton2.setText("ADD");

jButton2.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton2ActionPerformed(evt);

    }

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 128, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 128, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(10, 10, 10)
                    .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 128, javax.swing.GroupLayout.PREFERRED_SIZE))
            )
        )
);

```

FINAL PROJECT REPORT

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 136,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(32, 32, 32))

.addGroup(jPanel1Layout.createSequentialGroup())

.addGap(14, 14, 14)

.addComponent(txtsemester, javax.swing.GroupLayout.PREFERRED_SIZE, 186,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(0, 0, Short.MAX_VALUE))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel3)

.addComponent(jLabel2)

.addComponent(jLabel4))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(txtphone, javax.swing.GroupLayout.PREFERRED_SIZE, 186,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(txtid, javax.swing.GroupLayout.DEFAULT_SIZE, 186,
Short.MAX_VALUE)

.addComponent(txtname))))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 24,
Short.MAX_VALUE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 442,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

FINAL PROJECT REPORT

```
.addContainerGap())

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup())

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addComponent(jLabel1)

.addGap(126, 126, 126))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

.addContainerGap()

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 29,

javax.swing.GroupLayout.PREFERRED_SIZE)

.addGap(33, 33, 33)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE,

javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(29, 29, 29)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel3)

.addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE,

javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(32, 32, 32)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel4)
```

FINAL PROJECT REPORT

```
.addComponent(txtphone, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(41, 41, 41)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(txtsemester, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(38, 38, 38)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)))

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 291,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addContainerGap(15, Short.MAX_VALUE))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addContainerGap())

);

layout.setVerticalGroup(
```

FINAL PROJECT REPORT

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

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

private void txtidActionPerformed(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:
    Edit e = new Edit();

    e.setVisible(true);
    setVisible(false);
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    String id, name, phone, semester;
    name = txtname.getText();
```


FINAL PROJECT REPORT

```
phone = txtphone.getText();
semester = txtsemester.getText();
id = txtid.getText();

try {
    Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

    con = DriverManager.getConnection("jdbc:ucanaccess://F:/Student.accdb");

    pst          =          con.prepareStatement("insert          into
Studentt(StudentName,Phone,Semester)values(?,?,?)");

    pst.setString(1, name);
    pst.setString(2, phone);
    pst.setString(3, semester);
    pst.executeUpdate();
    JOptionPane.showMessageDialog(this, "Record Added");
    txtid.setText("");
    txtname.setText("");
    txtphone.setText("");
    txtsemester.setText("");
    txtid.requestFocus();
    tableupdate();

} catch (ClassNotFoundException ex) {
    Logger.getLogger(MainFrane.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(this, ex);
} catch (SQLException ex) {
    Logger.getLogger(MainFrane.class.getName()).log(Level.SEVERE, null, ex);
```

FINAL PROJECT REPORT

```
JOptionPane.showMessageDialog(this, ex);

}

}

public static void main(String args[]) {

    //<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(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
        null, ex);
    }
}
```

FINAL PROJECT REPORT

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
        java.util.logging.Logger.getLogger(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,  
null, ex);  
    }  
    //</editor-fold>
```

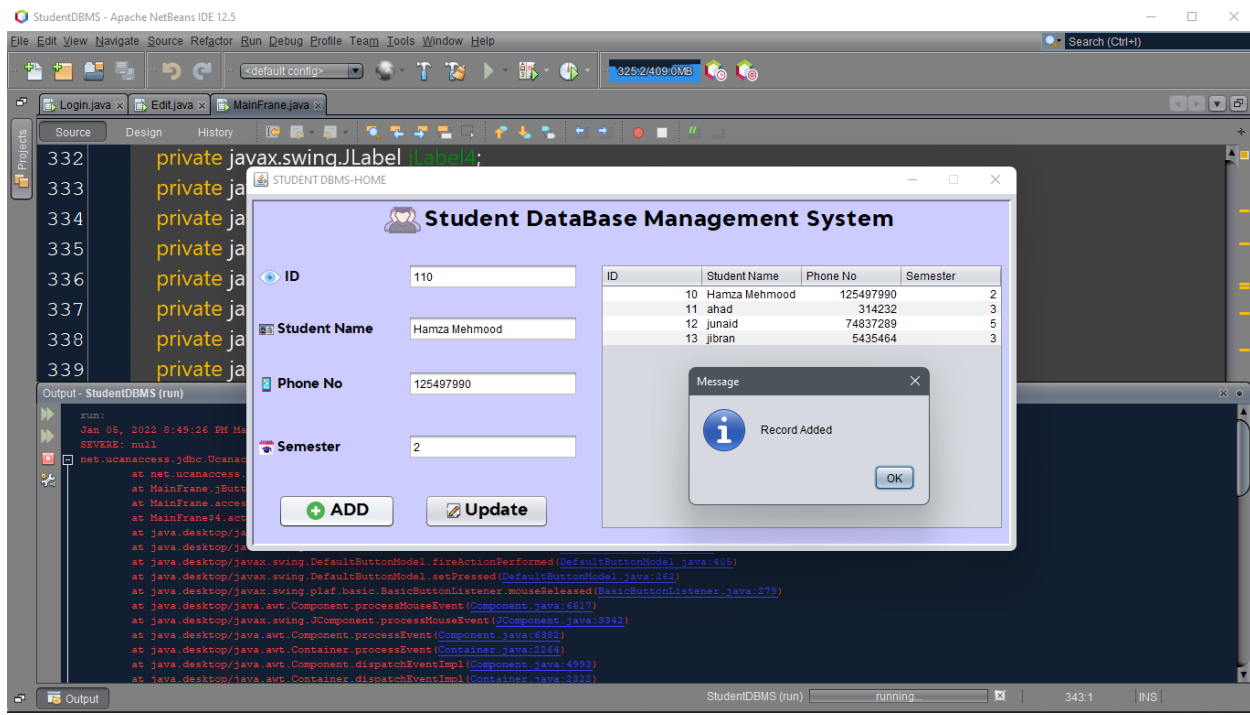
```
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new MainFrane().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField txtid;  
private javax.swing.JTextField txtname;  
private javax.swing.JTextField txtphone;  
private javax.swing.JTextField txtsemester;
```

FINAL PROJECT REPORT

```
// End of variables declaration  
}
```

OUTPUT



Source Code of Updating DATA:

```
/**  
 * @author Hamza._.Dezire  
 *SP-21-110  
 * NUML-S21-23529  
 * BS-SOFTWARE ENGINEERING  
 */  
  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;
```

FINAL PROJECT REPORT

```
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.text.MessageFormat;
import java.util.Vector;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JTable;

import javax.swing.table.DefaultTableModel;

public class Edit extends javax.swing.JFrame {
```

Data Base Code

```
public Edit() {
    initComponents();
    tableupdate();
}

Connection con;
PreparedStatement pst;
ResultSet rs;

public void tableupdate() {
    int c;
```

FINAL PROJECT REPORT

```
try {  
    Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");  
    Connection con =  
DriverManager.getConnection("jdbc:ucanaccess://F:/Student.accdb");  
    PreparedStatement pst = con.prepareStatement("select * from Studentt");  
    rs = pst.executeQuery();  
    ResultSetMetaData rsd = rs.getMetaData();  
    c = rsd.getColumnCount();  
    DefaultTableModel dft = (DefaultTableModel) jTable1.getModel();  
    dft.setRowCount(0);  
    while (rs.next()) {  
  
        Vector v2 = new Vector();  
        for (int i = 1; i <= c; i++) {  
            v2.add(rs.getString("ID"));  
            v2.add(rs.getString("StudentName"));  
            v2.add(rs.getString("Phone"));  
            v2.add(rs.getString("Semester"));  
        }  
        dft.addRow(v2);  
    }  
  
} catch (ClassNotFoundException ex) {  
    Logger.getLogger(MainFrane.class.getName()).log(Level.SEVERE, null, ex);  
}  
catch (SQLException ex) {  
    Logger.getLogger(MainFrane.class.getName()).log(Level.SEVERE, null, ex);  
}
```

FINAL PROJECT REPORT

```
}
```

```
@SuppressWarnings("unchecked")
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```
private void initComponents() {
```

```
    jPanel1 = new javax.swing.JPanel();
```

```
    jLabel1 = new javax.swing.JLabel();
```

```
    jLabel2 = new javax.swing.JLabel();
```

```
    jLabel3 = new javax.swing.JLabel();
```

```
    jLabel4 = new javax.swing.JLabel();
```

```
    jLabel5 = new javax.swing.JLabel();
```

```
    txtid = new javax.swing.JTextField();
```

```
    txtname = new javax.swing.JTextField();
```

```
    txtphone = new javax.swing.JTextField();
```

```
    txtsemester = new javax.swing.JTextField();
```

```
    jScrollPane1 = new javax.swing.JScrollPane();
```

```
    jTable1 = new javax.swing.JTable();
```

```
    jButton1 = new javax.swing.JButton();
```

```
    jButton2 = new javax.swing.JButton();
```

```
    jButton3 = new javax.swing.JButton();
```

```
    jButton4 = new javax.swing.JButton();
```

```
    jLabel6 = new javax.swing.JLabel();
```

```
    jButton5 = new javax.swing.JButton();
```

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

```
    setTitle("STUDENT DBMS-UPDATE");
```

FINAL PROJECT REPORT

```
setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));

setResizable(false);

jPanel1.setBackground(new java.awt.Color(204, 255, 204));

jPanel1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.LOWERED));

jLabel1.setBackground(new java.awt.Color(204, 255, 204));
jLabel1.setFont(new java.awt.Font("Adlinnaka Bold", 1, 36)); // NOI18N
jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/icons8-students-40.png"))); // NOI18N
jLabel1.setText("Student DataBase Management System");

jLabel2.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
jLabel2.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\Project Src\\Java v1\\src\\main\\icons8-eye-24.png")); // NOI18N
jLabel2.setText("ID");

jLabel3.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/vg.png"))); // NOI18N
jLabel3.setText("Student Name");

jLabel4.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/sm.png"))); // NOI18N
jLabel4.setText("Phone No");

jLabel5.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N
jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/mnk.png"))); // NOI18N
```


FINAL PROJECT REPORT

```
jLabel5.setText("Semester");
```

```
txtid.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        txtidActionPerformed(evt);  
    }  
});
```

```
txtname.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        txtnameActionPerformed(evt);  
    }  
});
```

```
jTable1.setModel(new javax.swing.table.DefaultTableModel(  
    new Object [][] {  
        {null, null, null, null},  
        {null, null, null, null},  
        {null, null, null, null},  
        {null, null, null, null}  
    },  
    new String [] {  
        "ID", "Student Name", "Phone No", "Semester"  
    }  
) {  
    Class[] types = new Class [] {  
        java.lang.Integer.class, java.lang.String.class, java.lang.Integer.class, java.lang.Integer.class  
    };  
};
```

FINAL PROJECT REPORT

```
public Class getColumnClass(int columnIndex) {  
    return types [columnIndex];  
}  
});  
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        jTable1MouseClicked(evt);  
    }  
});  
jScrollPane1.setViewportViewView(jTable1);  
  
jButton1.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N  
jButton1.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\New  
folder\\StudentDBMS\\src\\Images\\delete_16x16.gif")); // NOI18N  
jButton1.setText("DELETE");  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});  
  
jButton2.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N  
jButton2.setIcon(new javax.swing.ImageIcon("F:\\NUML BS-SE\\2nd Semester\\OOP\\New  
folder\\StudentDBMS\\src\\Images\\edit.png")); // NOI18N  
jButton2.setText("EDIT");  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

FINAL PROJECT REPORT

```
    }  
    });  
  
    jButton3.setFont(new java.awt.Font("Adlinnaka Bold", 1, 18)); // NOI18N  
    jButton3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/exit.png"))); // NOI18N  
    jButton3.setText("EXIT");  
    jButton3.addActionListener(new java.awt.event.ActionListener() {  
        public void actionPerformed(java.awt.event.ActionEvent evt) {  
            jButton3ActionPerformed(evt);  
        }  
    });  
  
    jButton4.setFont(new java.awt.Font("Adlinnaka Bold", 1, 18)); // NOI18N  
    jButton4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/printer.png"))); // NOI18N  
    jButton4.setText("PRINT");  
    jButton4.addActionListener(new java.awt.event.ActionListener() {  
        public void actionPerformed(java.awt.event.ActionEvent evt) {  
            jButton4ActionPerformed(evt);  
        }  
    });  
  
    jLabel6.setFont(new java.awt.Font("Adlinnaka Bold", 0, 18)); // NOI18N  
    jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Images/icons8-registration-24(1).png"))); // NOI18N  
    jLabel6.setText("UPDATE DATA");  
  
    jButton5.setFont(new java.awt.Font("Adlinnaka Bold", 1, 14)); // NOI18N
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

FINAL PROJECT REPORT

```
.addGroup(jPanel1Layout.createSequentialGroup())  
    .addGap(168, 168, 168)  
  
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE, 230,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE, 230,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(txtphone, javax.swing.GroupLayout.PREFERRED_SIZE, 230,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(txtsemester, javax.swing.GroupLayout.PREFERRED_SIZE, 230,  
javax.swing.GroupLayout.PREFERRED_SIZE)))  
    .addGroup(jPanel1Layout.createSequentialGroup())  
        .addGap(106, 106, 106)  
        .addComponent(jLabel6))  
    .addGroup(jPanel1Layout.createSequentialGroup())  
        .addGap(47, 47, 47)  
  
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  
    .addComponent(jButton5, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 133,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(35, 35, 35)  
  
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 128,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 128,  
javax.swing.GroupLayout.PREFERRED_SIZE)))  
    .addGap(33, 33, 33)
```

FINAL PROJECT REPORT

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 643,
Short.MAX_VALUE)
    .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
    .addContainerGap()
);
jPanel1Layout.setVerticalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel1)
        .addGap(66, 66, 66)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 348,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(21, 21, 21)
            )
        )
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE, 31,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))
        .addGap(18, 18, 18)
```

FINAL PROJECT REPORT

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3))
    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(txtphone, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4))
    .addGap(29, 29, 29)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(txtsemester, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel5))
    .addGap(36, 36, 36)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jButton5, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))))
    .addContainerGap(24, Short.MAX_VALUE))
```

FINAL PROJECT REPORT

```
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(20, 20, 20)
        )
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(10, 10, 10)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(23, 23, 23)
        )
);

pack();
setLocationRelativeTo(null);
}

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

}

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


Data Base Code of Updation

```
DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

int selectedIndex = jTable1.getSelectedRow();

int id = Integer.parseInt(model.getValueAt(selectedIndex, 0).toString());


int dialogresult = JOptionPane.showConfirmDialog(null, "Do You Want to Delete The
Record?", "Warning", JOptionPane.YES_NO_OPTION);

if (dialogresult == JOptionPane.YES_NO_OPTION) {

    try {

        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

        con = DriverManager.getConnection("jdbc:ucanaccess://F:/Student.accdb");

        pst = con.prepareStatement("delete from Studentt where ID =?");


        pst.setInt(1, id);


        pst.executeUpdate();

        JOptionPane.showMessageDialog(this, "Record Deleted");

        tableupdate();


        txtid.setText("");

        txtname.setText("");

        txtphone.setText("");

        txtsemester.setText("");

        txtid.requestFocus();
```

FINAL PROJECT REPORT

```
    } catch (SQLException ex) {  
        Logger.getLogger(Edit.class.getName()).log(Level.SEVERE, null, ex);  
    } catch (ClassNotFoundException ex) {  
        Logger.getLogger(Edit.class.getName()).log(Level.SEVERE, null, ex);  
    }  
  
}  
  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    DefaultTableModel model = (DefaultTableModel) jTable1.getModel();  
    int selectedIndex = jTable1.getSelectedRow();  
    int id = Integer.parseInt(model.getValueAt(selectedIndex, 0).toString());  
  
    String idd, name, phone, semester;  
  
    name = txtname.getText();  
    phone = txtphone.getText();  
    semester = txtsemester.getText();  
  
    try {  
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");  
  
        con = DriverManager.getConnection("jdbc:ucanaccess://F:/Student.accdb");
```

FINAL PROJECT REPORT

```
        pst        =        con.prepareStatement("update        Studentt        set
StudentName=?,Phone=?,Semester=? where ID =?");

        pst.setString(1, name);
        pst.setString(2, phone);
        pst.setString(3, semester);
        pst.setInt(4, id);

        pst.executeUpdate();
        JOptionPane.showMessageDialog(this, "Record Updated");
        tableupdate();
        txtid.setText("");
        txtname.setText("");
        txtphone.setText("");
        txtsemester.setText("");
        txtid.requestFocus();

    } catch (ClassNotFoundException ex) {
        Logger.getLogger(MainFrane.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this, ex);
    } catch (SQLException ex) {
        Logger.getLogger(MainFrane.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(this, ex);
    }

}
```

```
private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
  
    DefaultTableModel model = (DefaultTableModel) jTable1.getModel();  
    int selectedIndex = jTable1.getSelectedRow();  
  
    txtid.setText(model.getValueAt(selectedIndex, 0).toString());  
    txtname.setText(model.getValueAt(selectedIndex, 1).toString());  
    txtphone.setText(model.getValueAt(selectedIndex, 2).toString());  
    txtsemester.setText(model.getValueAt(selectedIndex, 3).toString());  
}  
  
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
  
    int dialogresult = JOptionPane.showConfirmDialog(null, "Are You Sure?", "Warning",  
JOptionPane.YES_NO_OPTION);  
    if (dialogresult == JOptionPane.YES_NO_OPTION) {  
  
        System.exit(0);  
    }  
}  
  
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:
```

Print FORM Source Code

FINAL PROJECT REPORT

```
MessageFormat header = new MessageFormat("HELLO");
MessageFormat footer = new MessageFormat("page (0,number,integer)");

try {

    jTable1.print(JTable.PrintMode.NORMAL, header, footer);

} catch (Exception e) {

    JOptionPane.showMessageDialog(null, e);

}

}

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

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainFrane e = new MainFrane();
    e.setVisible(true);
    this.setVisible(false);
}

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

FINAL PROJECT REPORT

```
/* 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(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
    null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
    null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
    null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(MainFrane.class.getName()).log(java.util.logging.Level.SEVERE,
    null, ex);
}

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
```

FINAL PROJECT REPORT

```
public void run() {  
    new MainFrane().setVisible(true);  
}  
});  
}  
  
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JButton jButton4;  
private javax.swing.JButton jButton5;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField txtid;  
private javax.swing.JTextField txtname;  
private javax.swing.JTextField txtphone;  
private javax.swing.JTextField txtsemester;  
// End of variables declaration  
}
```

FINAL PROJECT REPORT

OUTPUT

