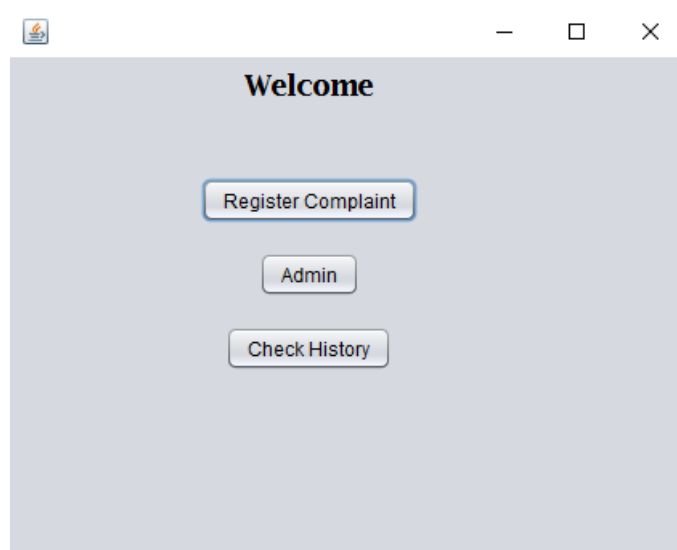


Implement a GUI based program which accepts the complaints from customers for their personal computer or laptops. Create a class Complaint which will have data members like complaint id, customer name, customer address, complaint and status. Add the complaint to the database. If the complaint of the customer is resolved, it should be added to customer's history. If the complaint is not completely resolved the status of the complaint should be changed.

MainPage.java



```
package customercare;
```

```
public class MainPage extends javax.swing.JFrame { // Creates new form MainPage
```

```
    public MainPage() {
```

```
        initComponents();
```

```
    }
```

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

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

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

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

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

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

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

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

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

```

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 [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane1.setViewportView(jTable1);

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jButton3.setText("Register Complaint");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setText("Admin");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jButton5.setText("Check History");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});

jLabel1.setFont(new java.awt.Font("Lucida Bright", 1, 18)); // NOI18N
jLabel1.setText("Welcome");

```

```

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(119, 119, 119)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.CENTER)
                .addComponent(jButton3)
                .addComponent(jButton4)
                .addComponent(jButton5)
                .addComponent(jLabel1)
            )
            .addGap(168, Short.MAX_VALUE))
        );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(47, 47, 47)
            .addComponent(jLabel1)
            .addGap(18, 18, 18)
            .addComponent(jButton3)
            .addGap(18, 18, 18)
            .addComponent(jButton4)
            .addGap(18, 18, 18)
            .addComponent(jButton5)
            .addGap(115, Short.MAX_VALUE))
        );
pack();
} // </editor-fold>

```

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
    new ComplaintForm().setVisible(true);
}

```

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

        this.setVisible(false);

        new AdminForm().setVisible(true);
    }

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

    this.setVisible(false);

    new Output().setVisible(true);
}

public static void main(String args[]) {                                // Set the Nimbus look and feel

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

    } catch (InstantiationException ex) {

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

    } catch (IllegalAccessException ex) {

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

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

    }

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

        public void run() {

            new MainPage().setVisible(true);

        }

    });

}

private javax.swing.JButton jButton3;                                // Variables declaration
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JLabel jLabel1;
private javax.swing.JScrollPane jScrollPane1;

```

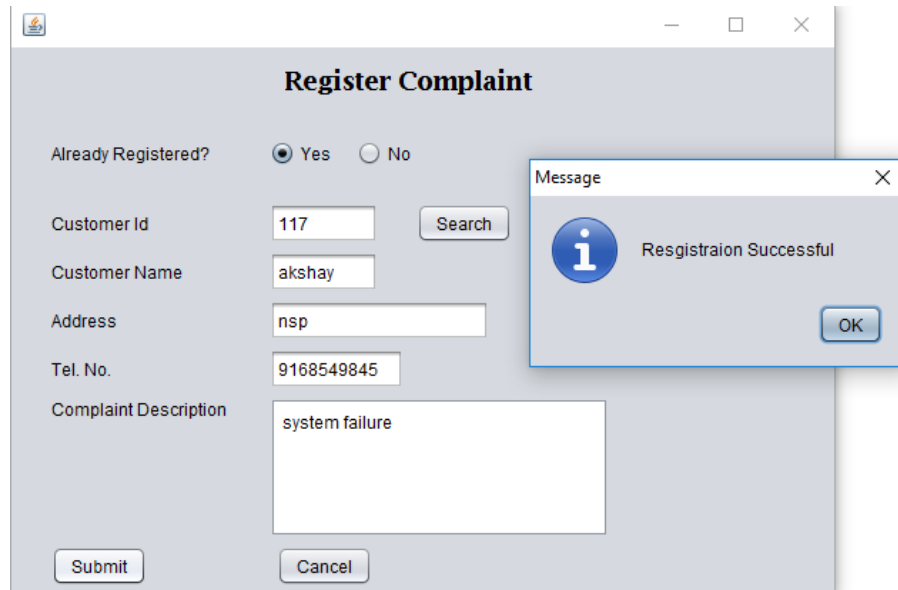
```

private javax.swing.JTable jTable1;

// End of variables declaration
}

```

ComplaintForm.java



```

package customercare;

import javax.swing.JOptionPane;

import java.sql.*;

import java.text.SimpleDateFormat;

import java.util.Date;

public class ComplaintForm extends javax.swing.JFrame {

    public ComplaintForm() {          //Creates new form ComplaintForm

        initComponents();
    }

    @SuppressWarnings("unchecked")

    String cname;

    String phno;

    String custid;

    String Complaint_Desc;

    String Address;

    private void initComponents() {

```

```
check_reg = new javax.swing.ButtonGroup();

jLabel1 = new javax.swing.JLabel();

jTextField3 = new javax.swing.JTextField();

jLabel2 = new javax.swing.JLabel();

jTextField5 = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

jTextField6 = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

jButton1 = new javax.swing.JButton();

jLabel5 = new javax.swing.JLabel();

jButton2 = new javax.swing.JButton();

jLabel6 = new javax.swing.JLabel();

jTextField7 = new javax.swing.JTextField();

jLabel7 = new javax.swing.JLabel();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jButton3 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


jLabel1.setText("Customer Name");


jTextField3.addActionListener(new java.awt.event.ActionListener() {

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

        jTextField3ActionPerformed(evt);

    }

});


jLabel2.setText("Address");

jLabel3.setText("Tel. No.");

jLabel4.setText("Complaint Description");

jTextArea1.setColumns(20);

jTextArea1.setRows(5);

jScrollPane1.setViewportView(jTextArea1);

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

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

```
jLabel5.setFont(new java.awt.Font("Lucida Bright", 1, 18)); // NOI18N  
jLabel5.setText("Register Complaint");  
jButton2.setText("Cancel");  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

```
jLabel6.setText("Customer Id");  
jLabel7.setText("Already Registered?");  
check_reg.add(jRadioButton1);  
jRadioButton1.setText("Yes");  
jRadioButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jRadioButton1ActionPerformed(evt);  
    }  
});
```

```
check_reg.add(jRadioButton2);  
jRadioButton2.setText("No");  
jRadioButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jRadioButton2ActionPerformed(evt);  
    }  
});
```

```
jButton3.setText("Search");  
jButton3.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton3ActionPerformed(evt);  
    }  
});
```

```
}  
});  
  
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(28, 28, 28)  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jLabel7)  
                .addComponent(jLabel6)  
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                    .addGroup(layout.createSequentialGroup()  
                        .addComponent(jButton1)  
                        .addGap(91, 91, 91)  
                        .addComponent(jButton2))  
                    .addGroup(layout.createSequentialGroup()  
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                            .addComponent(jLabel1)  
                            .addComponent(jLabel2)  
                            .addComponent(jLabel3)  
                            .addComponent(jLabel4))  
                        .addGap(30, 30, 30)  
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,  
                                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)  
                            .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE, 154,  
                                javax.swing.GroupLayout.PREFERRED_SIZE)  
                            .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE, 94,  
                                javax.swing.GroupLayout.PREFERRED_SIZE)  
                            .addGroup(layout.createSequentialGroup()  
                                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  
                                    .addComponent(jTextField7, javax.swing.GroupLayout.Alignment.LEADING,  
                                        javax.swing.GroupLayout.DEFAULT_SIZE, 76, Short.MAX_VALUE)  
                                    .addComponent(jTextField3, javax.swing.GroupLayout.Alignment.LEADING))  
                                .addGap(27, 27, 27)  
                                .addComponent(jButton3))  
                            .addGroup(layout.createSequentialGroup()  

```



```

        .addComponent(jRadioButton1)

        .addGap(18, 18, 18)

        .addComponent(jRadioButton2))))

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

    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 215,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(12, 12, 12))))

    .addContainerGap(158, Short.MAX_VALUE)

);

layout.setVerticalGroup(

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

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

    .addContainerGap()

    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 35, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(24, 24, 24)

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

        .addComponent(jLabel7)

        .addComponent(jRadioButton1)

        .addComponent(jRadioButton2))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26, Short.MAX_VALUE)

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

        .addComponent(jLabel6)

        .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jButton3))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

        .addComponent(jLabel1)

        .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

        .addComponent(jLabel2)

        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

        .addComponent(jLabel3)

```

```

        .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

            .addComponent(jLabel4)

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

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

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

            .addComponent(jButton1)

            .addComponent(jButton2))

        .addContainerGap())
    );
    pack();
}

```

```

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

    custid = jTextField7.getText();

    Complaint_Desc = jTextArea1.getText();

    String stat = "Registered";

    try {

        UserData.cid = custid;

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

        Connection con = DriverManager.getConnection("jdbc:ucanaccess://D:/Adv. java/Customer_Complaint.accdb");

        SimpleDateFormat MyDate = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");

        Date date;

        date = new Date();

        PreparedStatement ps=con.prepareStatement("insert into Complaint_master
(customer_id,complaint_desc,status,DateTime) values(?,?,?,?);");

        ps.setString(1,UserData.cid);

        ps.setString(2, Complaint_Desc);

        ps.setString(3,stat);

        ps.setString(4, MyDate.format(date));

        ps.executeUpdate();

        JOptionPane.showMessageDialog(this, "Resgistraion Successful");
    }
}

```

```

        System.out.println("Inserted successfully");

        this.setVisible(false);

        new ComplaintForm().setVisible(true);
    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.setVisible(false);

    new MainPage().setVisible(true);
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    this.setVisible(false);

    new CustomerRegist().setVisible(true);
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    Complaint_Desc = jTextArea1.getText();

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

        Connection con = DriverManager.getConnection("jdbc:ucanaccess://D:/Adv. java/Customer_Complaint.accdb");

        Statement st = con.createStatement();

        String sql = "select * from Customer_master where customer_id = '"+jTextField7.getText().trim()+"'";

        ResultSet rs = st.executeQuery(sql);

        if(rs.next() == false){
            JOptionPane.showMessageDialog(this, "Please Register First!");
        }
        else{
            do{
                jTextField3.setText(rs.getString("customer_name"));

                jTextField5.setText(rs.getString("customer_address"));

                jTextField6.setText(rs.getString("customer_tel_no"));

            }while(rs.next());
        }
    }
}

```

```

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

public static void main(String args[]) {
    // Set the Nimbus look and feel
    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(ComplaintForm.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(ComplaintForm.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(ComplaintForm.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(ComplaintForm.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}

java.awt.EventQueue.invokeLater(() -> {
    // Create and display the form
    new ComplaintForm().setVisible(true);
}); }

// Variables declaration
private javax.swing.ButtonGroup check_reg;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
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.JLabel jLabel7;

private javax.swing.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextArea jTextArea1;

private javax.swing.JTextField jTextField3;

private javax.swing.JTextField jTextField5;

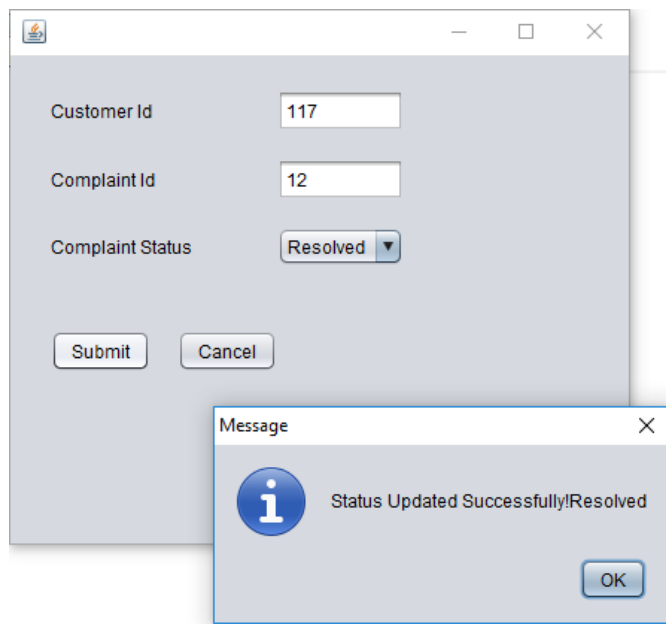
private javax.swing.JTextField jTextField6;

private javax.swing.JTextField jTextField7;

// End of variables declaration
}

```

AdminForm.java



```

package customercare;

import java.sql.*;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JComboBox;

import javax.swing.JOptionPane;

public class AdminForm extends javax.swing.JFrame {

    public AdminForm() {                                     //Creates new form AdminForm

        initComponents();

    }
}

```

```

@SuppressWarnings("unchecked")

private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jComboBox1 = new javax.swing.JComboBox();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("Customer Id");

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

    jLabel2.setText("Complaint Status");
    jLabel3.setText("Complaint Id");
    jButton1.setText("Submit");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jComboBox1.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Pending", "Resolved" }));
    jComboBox1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jComboBox1ActionPerformed(evt);
        }
    });
}

```

```

jButton2.setText("Cancel");

jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

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(27, 27, 27)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jButton1)
                    .addGap(18, 18, 18)
                    .addComponent(jButton2))
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel1)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3)
                    .addGap(57, 57, 57)
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                        .addComponent(jTextField2, javax.swing.GroupLayout.Alignment.LEADING,
                            javax.swing.GroupLayout.DEFAULT_SIZE, 84, Short.MAX_VALUE)
                        .addComponent(jTextField1, javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jComboBox1, javax.swing.GroupLayout.Alignment.LEADING,
                            javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE))))
            .addGap(151, 151, Short.MAX_VALUE))
        );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(23, 23, 23)

```

```

        .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(jLabel3)

        .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(jLabel2)

        .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(43, 43, 43)

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

        .addComponent(jButton1)

        .addComponent(jButton2))

        .addContainerGap(115, Short.MAX_VALUE))
    );
    pack();
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    String custid = jTextField1.getText();
    String compid = jTextField2.getText();
    String st = jComboBox1.getSelectedItem().toString();

    try{
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
        Connection con = DriverManager.getConnection("jdbc:ucanaccess://D:/Adv. java/Customer_Complaint.accdb");

        Statement sqlf = con.createStatement();

        ResultSet rs = sqlf.executeQuery("select * from Complaint_master where complaint_id = '"+compid+"' and
customer_id='"+custid+"'");

        while(rs.next()){

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

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

```



```

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

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

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


if(complaint_id.equals(compid) & customer_id.equals(custid) & st.equals("Pending")){

    Statement stmt = con.createStatement();

    stmt.executeUpdate("update Complaint_master set status = 'Pending' WHERE customer_id = '"+ custid + "' AND
complaint_id = '"+ compid + "'");

    JOptionPane.showMessageDialog(this, "Status Updated Successfully!" + st);

    this.setVisible(false);

    new MainPage().setVisible(true);

}

else if(complaint_id.equals(compid) & customer_id.equals(custid) & st.equals("Resolved")){

    UserData.cid = customer_id;

    PreparedStatement sqli = con.prepareStatement("insert into Customer_history (customer_id, complaint_id,
complaint_desc, datetime) values(?,?,?,?)");

    sqli.setString(1, custid);

    sqli.setString(2, compid);

    sqli.setString(3, complaint_desc);

    sqli.setString(4, DateTime);


    sqli.executeUpdate();


    Statement std = con.createStatement();

    String sqlD = "delete from Complaint_master where customer_id = '"+ custid + "' AND complaint_id = '"+ compid + "'";

    std.executeUpdate(sqlD);


    JOptionPane.showMessageDialog(this, "Status Updated Successfully!" + st);

    this.setVisible(false);

    new MainPage().setVisible(true);

}

else{

    JOptionPane.showMessageDialog(this, "no records found!");

}

System.out.println(complaint_id);

System.out.println(customer_id);

System.out.println(complaint_desc);

System.out.println(status);

```

```

        System.out.println(DateTime);

        System.out.println(st);

    }

}

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

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    this.setVisible(false);

    new MainPage().setVisible(true);
}

public static void main(String args[]) {
    // Set the Nimbus look and feel

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

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

        public void run() {
            new AdminForm().setVisible(true);
        }
    });
}

```

```

}

// Variables declaration

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JComboBox jComboBox1;

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;

// End of variables declaration
}

```

UserData.java

```

package customercare;

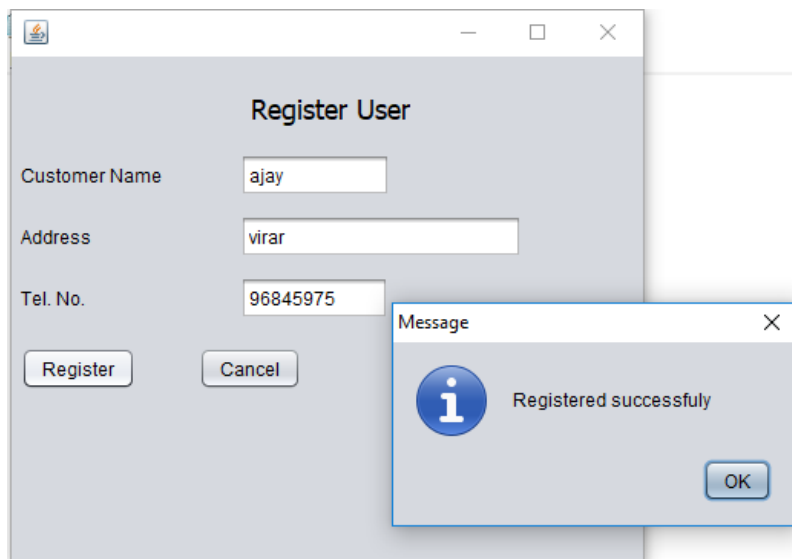
public class UserData {

    public static String cid;

}

```

CustomerRegist.java



```

package customercare;

```

```

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;


public class CustomerRegist extends javax.swing.JFrame {

    public CustomerRegist() {           // Creates new form CustomerRegist

        initComponents();
    }

    @SuppressWarnings("unchecked")

    private void initComponents() {


        jLabel1 = new javax.swing.JLabel();

        jLabel2 = new javax.swing.JLabel();

        jLabel3 = new javax.swing.JLabel();

        jLabel4 = new javax.swing.JLabel();

        jButton1 = new javax.swing.JButton();

        jButton2 = new javax.swing.JButton();

        jTextField1 = new javax.swing.JTextField();

        jTextField2 = new javax.swing.JTextField();

        jTextField3 = new javax.swing.JTextField();


        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


        jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        jLabel1.setText("Register User");


        jLabel2.setText("Customer Name");


        jLabel3.setText("Address");


        jLabel4.setText("Tel. No.");


        jButton1.setText("Register");

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

```

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

```
jButton2.setText("Cancel");  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

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

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(layout.createSequentialGroup()  
                    .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                        .add(layout.createSequentialGroup()  
                            .addGap(156, 156, 156)  
                            .addComponent(jLabel1))  
                        .addGroup(layout.createSequentialGroup()  
                            .addContainerGap()  
                            .addComponent(jButton1)  
                            .addGap(41, 41, 41)  
                            .addComponent(jButton2))  
                    .addGroup(layout.createSequentialGroup()  
                        .addContainerGap()  
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                            .addComponent(jLabel2)  
                            .addComponent(jLabel3))
```

```

        .addComponent(jLabel4))

        .addGap(51, 51, 51)

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

            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, 184,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 97,
javax.swing.GroupLayout.PREFERRED_SIZE))))

        .addContainerGap(79, Short.MAX_VALUE))
    );

    layout.setVerticalGroup(

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

        .addGroup(layout.createSequentialGroup()

            .addGap(23, 23, 23)

            .addComponent(jLabel1)

            .addGap(18, 18, 18)

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

                .addComponent(jLabel2)

                .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

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

                .addComponent(jLabel3)

                .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

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

                .addComponent(jLabel4)

                .addComponent(jTextField3, 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(jButton1)

                .addComponent(jButton2))

            .addContainerGap(114, Short.MAX_VALUE))

    );

    pack();
}

```

```

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

    this.setVisible(false);

    new MainPage().setVisible(true);

}

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

    String dup = "true";

    try {

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

        Connection con = DriverManager.getConnection("jdbc:ucanaccess://D:/Adv. java/Customer_Complaint.accdb");

        Statement st = con.createStatement();

        String sql = "select * from customer_master;";

        ResultSet rs = st.executeQuery(sql);

        while(rs.next()){

            if(rs.getString("customer_name").equalsIgnoreCase(jTextField1.getText()) &&
rs.getString("customer_address").equalsIgnoreCase(jTextField2.getText()) &&
rs.getString("customer_tel_no").equalsIgnoreCase(jTextField3.getText())){

                //throw new SQLException("Duplicate Info<br>Customer Name " + jTextField1.getText());

                JOptionPane.showMessageDialog(null, "User Already Registered");

                dup = "false";

            }

        }

        if("true".equals(dup)){

            PreparedStatement ps=con.prepareStatement("insert into Customer_master
(customer_name,customer_address,customer_tel_no) values(?,?,?);",Statement.RETURN_GENERATED_KEYS);

            ps.setString(1,jTextField1.getText());

            ps.setString(2,jTextField2.getText());

            ps.setString(3,jTextField3.getText());

            ps.executeUpdate();

            JOptionPane.showMessageDialog(null, "Registered successfully");

            this.setVisible(false);

            new MainPage().setVisible(true);

        }

    }

    catch(Exception e)

    {

        System.out.println(e);

    }

}

```

```

}

public static void main(String args[]) {                                // Set the Nimbus look and feel

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

    } catch (InstantiationException ex) {

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

    } catch (IllegalAccessException ex) {

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

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

    }

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

        public void run() {

            new CustomerRegist().setVisible(true);

        }

    });

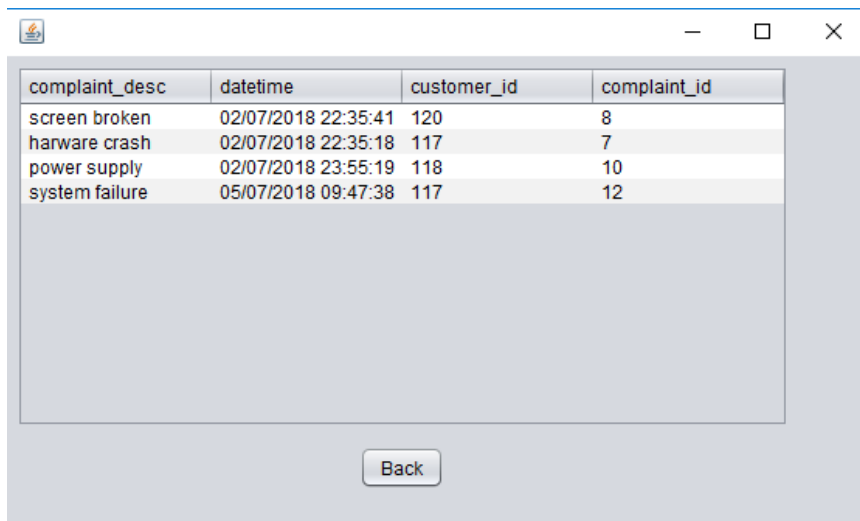
}

// Variables declaration
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.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;

// End of variables declaration
}

```


Output.java



The screenshot shows a Java Swing window with a title bar containing a standard icon and window controls (minimize, maximize, close). The window contains a table with four columns: 'complaint_desc', 'datetime', 'customer_id', and 'complaint_id'. The table has four data rows. Below the table is a 'Back' button.

complaint_desc	datetime	customer_id	complaint_id
screen broken	02/07/2018 22:35:41	120	8
hardware crash	02/07/2018 22:35:18	117	7
power supply	02/07/2018 23:55:19	118	10
system failure	05/07/2018 09:47:38	117	12

Back

```
package customercare;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

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

```
import java.sql.ResultSetMetaData;
```

```
import java.sql.Statement;
```

```
import javax.swing.table.TableModel;
```

```
import net.proteanit.sql.DbUtils;
```

```
import javax.swing.table.DefaultTableModel;
```

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

```
    public Output() {
```

```
        initComponents();
```

```
        DisplayData();
```

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

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

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

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

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

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

```
            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 [] {  
    "Customer_id", "Complaint_id", "Complaint_desc", "DateTime"  
}  
)  
{  
    Class[] types = new Class [] {  
        java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class  
    };  
  
    public Class getColumnClass(int columnIndex) {  
        return types [columnIndex];  
    }  
});  
  
jScrollPane1.setViewportViewView(jTable1);  
  
jTable1.getAccessibleContext().setAccessibleName("");  
  
jButton1.setText("Back");  
  
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(layout.createSequentialGroup()  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(layout.createSequentialGroup()  
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                        .addGroup(layout.createSequentialGroup()  
                            .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 498, Short.MAX_VALUE))
```

```

        .addGroup(layout.createSequentialGroup())

        .addGap(227, 227, 227)

        .addComponent(jButton1)))

    .addGap(52, 52, 52))

};

layout.setVerticalGroup(

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

    .addGroup(layout.createSequentialGroup()

        .addContainerGap()

        .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 233, Short.MAX_VALUE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addComponent(jButton1)

        .addGap(22, 22, 22))

    );

pack();
}

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

    this.setVisible(false);

    new MainPage().setVisible(true);

}

private void DisplayData() {

    try{

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

        Connection con = DriverManager.getConnection("jdbc:ucanaccess://D:/Adv. java/Customer_Complaint.accdb");

        Statement st = con.createStatement();

        ResultSet rs = st.executeQuery("select * from Customer_history");

        ResultSetMetaData md = rs.getMetaData();

        jTable1.setModel(DbUtils.resultSetToTableModel(rs));

    }

    catch(Exception e){

        System.out.println(e);

    }

}

public static void main(String args[]) {

    // Set the Nimbus look and feel

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

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

// Variables declaration
private javax.swing.JButton jButton1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
// End of variables declaration
}

```