

EmailAlertSendclass:

```
import java.lang.System.Logger;
import java.lang.System.Logger.Level;
import java.util.Properties;
import javax.mail.Authenticator;
import javax.mail.Message;
import javax.mail.MessagingException;
import javax.mail.PasswordAuthentication;
import javax.mail.Session;
import javax.mail.Transport;
import javax.mail.internet.AddressException;
import javax.mail.internet.InternetAddress;
import javax.mail.internet.MimeMessage;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */

/**
 *
 * @author harrishayyanar
 */
public class Emailalertsendsend {
    public static void sendEmail(String recipient) throws MessagingException{
        // establishing connection with the email provider through the smtp protocol
        Properties properties = new Properties();
        properties.put("mail.smtp.auth", "true");
        properties.put("mail.smtp.starttls.enable", "true");
        properties.put("mail.smtp.host", "smtp-mail.outlook.com");
        properties.put("mail.smtp.port", "587");
        // providing email and password of the email of the business.
        String firmemail = "donotreplystreamliner@outlook.com";
        String password = "Cs12345!";
        Session session = Session.getInstance(properties, new Authenticator(){
            @Override
            protected PasswordAuthentication getPasswordAuthentication(){
                return new PasswordAuthentication(firmemail, password);
            }
        });
        Message message = prepareMessage(session, firmemail, recipient);
        Transport.send(message);
        System.out.println("Message sent successfully");
    }
}
```

```

    private static Message prepareMessage(Session session, String firmemail, String
recipient){
        Message message = new MimeMessage(session);
        try {
            // sends email to itself to alert the owner that 5 attempts have failed and to ensure
the device or application is under authorised people.
            message.setFrom(new InternetAddress(firmemail));
            message.setRecipient(Message.RecipientType.TO, new InternetAddress(recipient));
            message.setSubject("Application Locked - Streamliner");
            message.setText("More than 5 Attempts have been made to try access the Streamliner
Application. It is now locked for 30 minutes. Please reassure that the application is used by
authorised individuals.");
            return message;
        } catch (AddressException ex) {

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

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

        return null;
    }
}

```

Emailsend

```

import java.lang.System.Logger;
import java.lang.System.Logger.Level;
import java.util.Properties;
import javax.mail.Authenticator;
import javax.mail.Message;
import javax.mail.MessagingException;
import javax.mail.PasswordAuthentication;
import javax.mail.Session;
import javax.mail.Transport;
import javax.mail.internet.AddressException;
import javax.mail.internet.InternetAddress;
import javax.mail.internet.MimeMessage;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license

```

* Click <nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java> to edit this template
*/

/**

*

*

*/

public class Emailsend {

public static void sendEmail(String recipient, String pw) throws MessagingException{

// establishing connection with the email provider through the smtp protocol

Properties properties = new Properties();

properties.put("mail.smtp.starttls.enable", "true");

properties.put("mail.smtp.auth", "true");

properties.put("mail.smtp.starttls.enable", "true");

properties.put("mail.smtp.host", "smtp-mail.outlook.com");

properties.put("mail.smtp.port", "587");

// providing email and password of the email of the business.

String firmemail = "donotreplystreamliner@outlook.com";

String password = "Cs12345!";

Session session = Session.getInstance(properties, new Authenticator(){

@Override

protected PasswordAuthentication getPasswordAuthentication(){

return new PasswordAuthentication(firmemail, password);

}

});

//alert message to user that the e-mail has been sent to them.

Message message = prepareMessage(session, firmemail, recipient, pw);

Transport.send(message);

System.out.println("Message sent successfully");

}

public static Message prepareMessage(Session session, String firmemail, String recipient,String pw){

Message message = new MimeMessage(session);

try {

// e-mail details of the email being sent to staff account's respective email id of their password incase they forgot.

message.setFrom(new InternetAddress(firmemail));

message.setRecipient(Message.RecipientType.TO, new InternetAddress(recipient));

message.setSubject("Reset Password - Streamliner");

message.setText("Hello There, the password for your account is: "+pw+. If this was not you, please immediately change your password and make sure the application is used by staff.");

return message;

} catch (AddressException ex) {

```

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

```

```

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

```

```

    return null;
}

```

```

    static void prepareMessage(String password) {
        throw new UnsupportedOperationException("Not supported yet."); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
    }

```

```

}

```

StreamlinerLog

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */

```

```

/**
 *
 * @author
 */

```

```

import java.io.IOException;
import java.util.logging.FileHandler;
import java.util.logging.SimpleFormatter;
import java.util.logging.Level;
import java.util.logging.Logger;
public class StreamlinerLog {
    static Logger logger = Logger.getLogger("AppLog");
    static String query;

```

```

    public static void init(){
        FileHandler fh;
        try{
            // creates new file if there is no existing "StreamlinerLog.log".
            fh = new FileHandler("StreamlinerLog.log",true);
            logger.addHandler(fh);
            SimpleFormatter formatter = new SimpleFormatter();
            fh.setFormatter(formatter);

```

```

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

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

}

```

Changepassword:

```

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

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */

public class changepassword extends javax.swing.JFrame {

    PreparedStatement pstatement;
    ResultSet rset;
    /**
     * Creates new form homepage
     */
    private String ro;
    public changepassword() {

```

```

        initComponents();
    }
    public changepassword(String rno){
        initComponents();
        ro = rno;
    }

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

    transactionflowBtn = new javax.swing.ButtonGroup();
    backgroundpanel = new javax.swing.JPanel();
    jPanel1 = new javax.swing.JPanel();
    productBtn = new javax.swing.JButton();
    homeBtn = new javax.swing.JButton();
    flowBtn = new javax.swing.JButton();
    transactionBtn = new javax.swing.JButton();
    changepasswordBtn = new javax.swing.JButton();
    logoutBtn = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    pww = new javax.swing.JLabel();
    oldpasswordTxt = new javax.swing.JTextField();
    newpasswordTxt = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    changepasswordsubmitBtn = new javax.swing.JButton();
    resultLbl = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setLocationByPlatform(true);
    setMaximumSize(new java.awt.Dimension(675, 400));
    setMinimumSize(new java.awt.Dimension(675, 400));
    setSize(new java.awt.Dimension(675, 400));

    backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));
    backgroundpanel.setMaximumSize(new java.awt.Dimension(663, 430));
    backgroundpanel.setMixingCutoutShape(null);

    jPanel1.setBackground(new java.awt.Color(51, 51, 51));

```

```

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

```

```

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

```

```

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

```

```

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

```

```

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));

```

```

        changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
        changepasswordBtn.setText("Change Password");
        changepasswordBtn.setBorder(null);
        changepasswordBtn.setBorderPainted(false);
        changepasswordBtn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                changepasswordBtnActionPerformed(evt);
            }
        });

        logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
        logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
        logoutBtn.setText("Log Out");
        logoutBtn.setBorder(null);
        logoutBtn.setBorderPainted(false);
        logoutBtn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                logoutBtnActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(changepasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
                .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

```



```

        .addGap(0, 0, 0)
        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    pww.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    pww.setText("Change Password");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                .addContainerGap(137, Short.MAX_VALUE)
                .addComponent(pww)
                .addGap(118, 118, 118))
    );
    jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                .addContainerGap(35, Short.MAX_VALUE)
                .addComponent(pww)
                .addGap(28, 28, 28))
    );

    oldpasswordTxt.setBackground(new java.awt.Color(255, 255, 255));
    oldpasswordTxt.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            oldpasswordTxtActionPerformed(evt);
        }
    }

```

```

});

newpasswordTxt.setBackground(new java.awt.Color(255, 255, 255));
newpasswordTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        newpasswordTxtActionPerformed(evt);
    }
});

jLabel2.setBackground(new java.awt.Color(51, 51, 51));
jLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel2.setForeground(new java.awt.Color(51, 51, 51));
jLabel2.setText("Old Password:");

jLabel3.setBackground(new java.awt.Color(51, 51, 51));
jLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel3.setForeground(new java.awt.Color(51, 51, 51));
jLabel3.setText("New Password:");

changepasswordsubmitBtn.setBackground(new java.awt.Color(51, 51, 51));
changepasswordsubmitBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13));
// NOI18N
changepasswordsubmitBtn.setText("Change");
changepasswordsubmitBtn.setBorderPainted(false);
changepasswordsubmitBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changepasswordsubmitBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addGap(188, 188, 188)
        .addComponent(changepasswordsubmitBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 97, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(188, 188, 188)
    )
);

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup())
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addComponent(resultLbl, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 260, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup())

        .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addComponent(jLabel3)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 87,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(44, 44, 44)

        .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addComponent(newpasswordTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 125, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(oldpasswordTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 125, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(118, 118, 118))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup())
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap()))))
    );
    backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(30, 30, 30)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

```

```

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
    .addComponent(oldpasswordTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))
.addGap(32, 32, 32)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
    .addComponent(jLabel3)
    .addComponent(newpasswordTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addGap(47, 47, 47)
.addComponent(changepasswordsubmitBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 38, javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(17, 52, Short.MAX_VALUE)
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

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

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

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

```

```

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

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

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

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

private void changepasswordsubmitBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String password = oldpasswordTxt.getText();
    String changepassword=newpasswordTxt.getText();

    if(password.length()!=0){
    if(changepassword.length()>=8){

        try {
            // Establish connection with MySQL
            Class.forName("com.mysql.cj.jdbc.Driver");
            String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
            Connection con=DriverManager.getConnection(url,"root","Hari2006");
            String sql = "SELECT Password FROM admin_table WHERE Userid='"+ro+"'";
            pstatement = con.prepareStatement(sql);
            rset = pstatement.executeQuery();

            while(rset.next()) {
                String pw=rset.getString("Password");
                if(pw.equals(password)){
                    //checks if the current password entered by staff is the same as the password in
the database for that userid.
                    if(changepassword.equals(password)){
                        resultLbl.setText("Please enter a different password");
                        break;}
                }
            }
        }
    }
}

```

```

        else{
            // updates the password to the new password entered by staff.
            String w = "UPDATE admin_table SET Password='"+changepassword+"'WHERE
Userid='"+ro+"'";
            pstatement = con.prepareStatement(w);
            pstatement.executeUpdate();
            JOptionPane.showMessageDialog(null,"Password Updated!");
            StreamlinerLog.init();
            // logs info
            StreamlinerLog.logger.info("Password Updated for AdminID: "+ro);
            new home(ro).setVisible(true);
            setVisible(false);
        }
    }
}

```

```

        }
        else{
            // scenario if invalid password is entered
            resultLbl.setText("Invalid Password Entered");
            StreamlinerLog.init();
            // logs info
            StreamlinerLog.logger.info("Password Change failed for AdminID: "+ro);
        }

    }
    pstatement.close();
    con.close();
    // catch clause for MySQL and class error. logs errors as well
} catch (SQLException e) {

```

```

    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(changepassword.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+ex);
}} else{
    resultLbl.setText("New Password must be atleast 8 characters"); }}
else{
    resultLbl.setText("Password Field is Empty");
}
}

```

```

    }

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

    private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new login().setVisible(true);
        setVisible(false);
        StreamlinerLog.init();
        StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
    }

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

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

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

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

```

```

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

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

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;
private javax.swing.JButton changepasswordsubmitBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JButton logoutBtn;
private javax.swing.JTextField newpasswordTxt;
private javax.swing.JTextField oldpasswordTxt;
private javax.swing.JButton productBtn;
private javax.swing.JLabel pww;
private javax.swing.JLabel resultLbl;
private javax.swing.JButton transactionBtn;
private javax.swing.ButtonGroup transactionflowBtn;
// End of variables declaration

private Object JLabel(JLabel useridTxt) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}
}

```

Deleteproduct:

```

import java.sql.Connection;
import java.sql.DriverManager;

```



```

import java.sql.PreparedStatement;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */
public class deleteproduct extends javax.swing.JFrame {
    PreparedStatement pstatement;
    ResultSet rset;
    Statement statement;
    /**
     * Creates new form homepage
     */
    private String ro;
    public deleteproduct() {
        initComponents();
    }
    public deleteproduct(String rno) {
        initComponents();
        ro=rno;
    }

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

        backgroundpanel = new javax.swing.JPanel();
        jPanel1 = new javax.swing.JPanel();
        productBtn = new javax.swing.JButton();
        homeBtn = new javax.swing.JButton();

```

```

flowBtn = new javax.swing.JButton();
transactionBtn = new javax.swing.JButton();
changepasswordBtn = new javax.swing.JButton();
logoutBtn = new javax.swing.JButton();
jPanel2 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
productidTxt = new javax.swing.JTextField();
jLabel2 = new javax.swing.JLabel();
productdeleteBtn = new javax.swing.JButton();
producteditpageBtn = new javax.swing.JButton();
resultLbl = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setLocationByPlatform(true);
setMaximumSize(new java.awt.Dimension(663, 400));
setMinimumSize(new java.awt.Dimension(663, 400));

backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));
backgroundpanel.setMaximumSize(new java.awt.Dimension(663, 400));
backgroundpanel.setPreferredSize(new java.awt.Dimension(663, 400));

jPanel1.setBackground(new java.awt.Color(51, 51, 51));

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N

```

```

flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changepasswordBtn.setText("Change Password");
changepasswordBtn.setBorder(null);
changepasswordBtn.setBorderPainted(false);
changepasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changepasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(64, 64, 64)
        .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    jLabel1.setText("Delete Product");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(

```

```

        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                .addContainerGap(148, Short.MAX_VALUE)
                .addComponent(jLabel1)
                .addGap(145, 145, 145))
        );
        jPanel2Layout.setVerticalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                    .addContainerGap(35, Short.MAX_VALUE)
                    .addComponent(jLabel1)
                    .addGap(28, 28, 28))
        );

        productidTxt.setBackground(new java.awt.Color(255, 255, 255));
        productidTxt.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                productidTxtActionPerformed(evt);
            }
        });

        jLabel2.setBackground(new java.awt.Color(51, 51, 51));
        jLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(51, 51, 51));
        jLabel2.setText("Product Id: ");

        productdeleteBtn.setBackground(new java.awt.Color(51, 51, 51));
        productdeleteBtn.setText("Submit");
        productdeleteBtn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                productdeleteBtnActionPerformed(evt);
            }
        });

        producteditpageBtn.setBackground(new java.awt.Color(153, 153, 153));
        producteditpageBtn.setText("Edit Product");
        producteditpageBtn.setBorderPainted(false);
        producteditpageBtn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                producteditpageBtnActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout backgroundpanellayout = new
        javax.swing.GroupLayout(backgroundpanel);

```

```

backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

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

    .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(138, 138, 138)
            .addComponent(jLabel2)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
93, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(173, 173, 173)
            .addComponent(productdeleteBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 97, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(159, 159, 159)
            .addComponent(producteditpageBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 127, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(78, 78, 78)
            .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 290,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(0, 0, Short.MAX_VALUE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup())
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGap(0, 0, 0))
);
backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup())

```

```

        .addGap(30, 30, 30)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
        .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))
        .addGap(38, 38, 38)
        .addComponent(productdeleteBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(producteditpageBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
33, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(59, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

    backgroundpanel.getAccessibleContext().setAccessibleName("");

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

```

```

private void productdeleteBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String productid = productidTxt.getText();
    // checks if productid is only numeric and has atleast one integer.
    if(productid.length() > 0 && productid.matches("[0-9]+")){
        try {
            // establish connection with MySQL database

```

```

Class.forName("com.mysql.cj.jdbc.Driver");
String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
Connection con=DriverManager.getConnection(url,"root","Hari2006");
String sql = "SELECT * FROM product_table;";
pstatement = con.prepareStatement(sql);
rset = pstatement.executeQuery();
// query executed
while(rset.next()){
    String id = rset.getString("productid");
    if (productid.equals(id)){
        statement=con.createStatement();
        // deletes product with the product id if the product id exists in the database
        String delete = "delete from product_table where productid='"+productid+"'";
        statement.executeUpdate(delete);

        new product(ro).setVisible(true);
        setVisible(false);
        // alerts the user
        JOptionPane.showMessageDialog(null,"Product Deleted!");
        StreamlinerLog.init();
        // logs info in the Streamlinerlog.
        StreamlinerLog.logger.info("Product ID: "+productid+" is deleted by "+ro);

    }
    else{
        resultLbl.setText("Please enter an existing ProductID");
    }
}

} // catch clause for MySQL and class error. logs errors as well
catch (SQLException e) {
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC Driver.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+ex);
} else{
    resultLbl.setText("Please enter a numeric ProductID");
}

}

```



```

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

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

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

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

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

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

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

private void producteditpageBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new editproduct(ro).setVisible(true);
}

```

```

        setVisible(false);
    }

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

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

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

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

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

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

```

```

    });
}

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JButton logoutBtn;
private javax.swing.JButton productBtn;
private javax.swing.JButton productdeleteBtn;
private javax.swing.JButton producteditpageBtn;
private javax.swing.JTextField productidTxt;
private javax.swing.JLabel resultLbl;
private javax.swing.JButton transactionBtn;
// End of variables declaration
}

```

Deletetransaction:

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */
public class deletetransaction extends javax.swing.JFrame {
    PreparedStatement pstatement,productpstatement;

```

```

ResultSet rset,productrset;
Statement statement;
/**
 * Creates new form homepage
 */
private String ro;
public deletetransaction(String rno) {
    initComponents();
    ro=rno;
}

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

    backgroundpanel = new javax.swing.JPanel();
    jPanel1 = new javax.swing.JPanel();
    productBtn = new javax.swing.JButton();
    homeBtn = new javax.swing.JButton();
    flowBtn = new javax.swing.JButton();
    transactionBtn = new javax.swing.JButton();
    changepasswordBtn = new javax.swing.JButton();
    logoutBtn = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    transactionidTxt = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    transactiondeleteBtn = new javax.swing.JButton();
    transactioneditpageBtn = new javax.swing.JButton();
    resultLbl = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setLocationByPlatform(true);
    setMaximumSize(new java.awt.Dimension(663, 400));
    setMinimumSize(new java.awt.Dimension(663, 400));
    setSize(new java.awt.Dimension(663, 400));

    backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));

    jPanel1.setBackground(new java.awt.Color(51, 51, 51));

    productBtn.setBackground(new java.awt.Color(61, 61, 61));

```

```

productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changepasswordBtn.setText("Change Password");

```

```

changePasswordBtn.setBorder(null);
changePasswordBtn.setBorderPainted(false);
changePasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changePasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changePasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, 0)
            .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    JPanel2.setBackground(new java.awt.Color(153, 153, 153));

    JLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    JLabel1.setText("Delete Transaction");

    javax.swing.GroupLayout JPanel2Layout = new javax.swing.GroupLayout(JPanel2);
    JPanel2.setLayout(JPanel2Layout);
    JPanel2Layout.setHorizontalGroup(
        JPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(JPanel2Layout.createSequentialGroup()
                .addGap(128, 128, 128)
                .addComponent(JLabel1)
                .addContainerGap(165, Short.MAX_VALUE))
    );
    JPanel2Layout.setVerticalGroup(
        JPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(JPanel2Layout.createSequentialGroup()
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
JPanel2Layout.createSequentialGroup()
                    .addContainerGap(35, Short.MAX_VALUE)
                    .addComponent(JLabel1)
                    .addGap(28, 28, 28))
            );

    transactionidTxt.setBackground(new java.awt.Color(255, 255, 255));
    transactionidTxt.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            transactionidTxtActionPerformed(evt);
        }
    });

    JLabel2.setBackground(new java.awt.Color(51, 51, 51));
    JLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N

```

```

jLabel2.setForeground(new java.awt.Color(51, 51, 51));
jLabel2.setText("Transaction Id: ");

transactiondeleteBtn.setBackground(new java.awt.Color(51, 51, 51));
transactiondeleteBtn.setText("Submit");
transactiondeleteBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactiondeleteBtnActionPerformed(evt);
    }
});

transactioneditpageBtn.setBackground(new java.awt.Color(153, 153, 153));
transactioneditpageBtn.setText("Edit Transaction");
transactioneditpageBtn.setBorderPainted(false);
transactioneditpageBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactioneditpageBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup()
            .addGap(0, 0, Short.MAX_VALUE)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(50, 50, 50))
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup()

    .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
 TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup()
            .addGap(138, 138, 138)
            .addComponent(jLabel2)

```



```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(transactionidTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup()
    .addGap(173, 173, 173)
    .addComponent(transactiondeleteBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 97, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup()
    .addGap(159, 159, 159)
    .addComponent(transactioneditpageBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 127, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup()
    .addGap(110, 110, 110)
    .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 231,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
);
backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
    .addGap(30, 30, 30)
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
    .addComponent(transactionidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))
    .addGap(38, 38, 38)
    .addComponent(transactiondeleteBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
33, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(transactioneditpageBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addContainerGap(59, Short.MAX_VALUE)
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.PREFERRED_SIZE, 663,
javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

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

```

```

private void transactiondeleteBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String transactionid = transactionidTxt.getText();
    // checks if transaction id is only numeric.
    if(transactionid.matches("[0-9]+")){
        try {
            // establish connection to MySQL
            Class.forName("com.mysql.cj.jdbc.Driver");
            String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
            Connection con=DriverManager.getConnection(url,"root","Hari2006");
            String sql = "SELECT * FROM transactions_table WHERE
transactionid='"+transactionid+"'";
            pstatement = con.prepareStatement(sql);
            rset = pstatement.executeQuery();

            if(rset.next()){

                statement=con.createStatement();
                // the query to MySQL to delete transaction with the respective transaction id.
                String delete = "delete from transactions_table where
transactionid='"+transactionid+"'";
                statement.executeUpdate(delete);

                statement.close();
                //updates the quantity of the product to what it was before the transaction.
                String prodid=rset.getString("productid");
                String oldqty = rset.getString("quantity");
                String transactiontype = rset.getString("transactiontype");
            }
        } catch (Exception ex) {
            JOptionPane.showMessageDialog(this, ex.getMessage());
        }
    }
}

```

```

        Integer oldquantity = Integer.parseInt(oldqty);
        String get= "SELECT * FROM product_table WHERE productid='"+prodid+"'";
        productpstatement = con.prepareStatement(get);
        productrset = productpstatement.executeQuery();
        if(productrset.next()){
            String reverseqty = productrset.getString("quantity");
            Integer reversequantity = Integer.parseInt(reverseqty);

            Integer addresetquantity = reversequantity+oldquantity;

            Integer subresetquantity = reversequantity-oldquantity;

            if (transactiontype.equals("O")){
                String addrevert = "UPDATE product_table SET
quantity='"+addresetquantity+"'WHERE productid='"+prodid+"'";
                statement = con.createStatement();
                statement.executeUpdate(addrevert);}
            else{
                String subrevert = "UPDATE product_table SET
quantity='"+subresetquantity+"'WHERE productid='"+prodid+"'";
                statement = con.createStatement();
                statement.executeUpdate(subrevert);
            }
            }
        JOptionPane.showMessageDialog(null,"Transaction Deleted!");
        StreamlinerLog.init();
        // logs info.
        StreamlinerLog.logger.info("Transaction No: "+transactionid+" deleted by AdminID:
"+ro);
        new transactionlist(ro).setVisible(true);
        setVisible(false);

    }
    else{
        resultLbl.setText("Invalid TransactionID entered");
    }

}

// catch clause for MySQL and class error. logs errors as well
catch (SQLException e) {

    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
}

```

```

        JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception :: "+ex);
    }
    }else{
        resultLbl.setText("Please enter a numeric TransactionID");
    }
}

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

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

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

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

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

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}
}

```

```

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

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

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

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

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

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

```

```

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

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

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JButton logoutBtn;
private javax.swing.JButton productBtn;
private javax.swing.JLabel resultLbl;
private javax.swing.JButton transactionBtn;
private javax.swing.JButton transactiondeleteBtn;
private javax.swing.JButton transactioneditpageBtn;
private javax.swing.JTextField transactionidTxt;
// End of variables declaration
}

```

Editproduct:

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import java.util.ArrayList;
import java.text.ParseException;

```

```

import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */

public class editproduct extends javax.swing.JFrame {
    PreparedStatement pstatement;
    ResultSet rset;
    Statement statement, statement1;
    private String ro;
    /**
     * Creates new form homepage
     */
    public editproduct(String rno) {
        initComponents();
        ro=rno;
    }

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

        backgroundpanel = new javax.swing.JPanel();
        jPanel1 = new javax.swing.JPanel();
        productBtn = new javax.swing.JButton();
        homeBtn = new javax.swing.JButton();
        flowBtn = new javax.swing.JButton();
        transactionBtn = new javax.swing.JButton();
        changepasswordBtn = new javax.swing.JButton();
        logoutBtn = new javax.swing.JButton();
        jPanel2 = new javax.swing.JPanel();

```

```

jLabel1 = new javax.swing.JLabel();
productidTxt = new javax.swing.JTextField();
productnameTxt = new javax.swing.JTextField();
productpriceTxt = new javax.swing.JTextField();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
producteditBtn = new javax.swing.JButton();
productdeletepageBtn = new javax.swing.JButton();
productdateTxt = new com.toedter.calendar.JDateChooser();
resultLbl = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setLocationByPlatform(true);
setMaximumSize(new java.awt.Dimension(644, 401));
setMinimumSize(new java.awt.Dimension(644, 40));
setSize(new java.awt.Dimension(644, 401));

backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setBackground(new java.awt.Color(51, 51, 51));

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N

```



```

flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changepasswordBtn.setText("Change Password");
changepasswordBtn.setBorder(null);
changepasswordBtn.setBorderPainted(false);
changepasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changepasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(loginBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(64, 64, 64)
        .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(loginBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(97, Short.MAX_VALUE))
    );

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    jLabel1.setText("Add or Edit Product");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(

```

```

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel2Layout.createSequentialGroup()
.addGap(107, 107, 107)
.addComponent(jLabel1)
.addContainerGap(109, Short.MAX_VALUE))
);
jPanel2Layout.setVerticalGroup(
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel2Layout.createSequentialGroup()
.addGap(37, 37, 37)
.addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addGap(26, 26, 26))
);

productidTxt.setBackground(new java.awt.Color(255, 255, 255));
productidTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productidTxtActionPerformed(evt);
    }
});

productnameTxt.setBackground(new java.awt.Color(255, 255, 255));
productnameTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productnameTxtActionPerformed(evt);
    }
});

productpriceTxt.setBackground(new java.awt.Color(255, 255, 255));
productpriceTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productpriceTxtActionPerformed(evt);
    }
});

jLabel2.setBackground(new java.awt.Color(51, 51, 51));
jLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 10)); // NOI18N
jLabel2.setForeground(new java.awt.Color(51, 51, 51));
jLabel2.setText("Product Id: ");

jLabel3.setBackground(new java.awt.Color(51, 51, 51));
jLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 10)); // NOI18N
jLabel3.setForeground(new java.awt.Color(51, 51, 51));
jLabel3.setText("Manufacturing Date: ");

jLabel4.setBackground(new java.awt.Color(51, 51, 51));

```

```

jLabel4.setFont(new java.awt.Font("Shree Devanagari 714", 0, 10)); // NOI18N
jLabel4.setForeground(new java.awt.Color(51, 51, 51));
jLabel4.setText("Product Price:");

jLabel5.setBackground(new java.awt.Color(51, 51, 51));
jLabel5.setFont(new java.awt.Font("Shree Devanagari 714", 0, 10)); // NOI18N
jLabel5.setForeground(new java.awt.Color(51, 51, 51));
jLabel5.setText("Product Name:");

producteditBtn.setBackground(new java.awt.Color(51, 51, 51));
producteditBtn.setText("Submit");
producteditBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        producteditBtnActionPerformed(evt);
    }
});

productdeletepageBtn.setBackground(new java.awt.Color(153, 153, 153));
productdeletepageBtn.setText("Delete Product");
productdeletepageBtn.setBorderPainted(false);
productdeletepageBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productdeletepageBtnActionPerformed(evt);
    }
});

productdateTxt.setBackground(new java.awt.Color(255, 255, 255));
productdateTxt.setForeground(new java.awt.Color(255, 255, 255));

resultLbl.setPreferredSize(new java.awt.Dimension(660, 509));

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()
    .addGap(0, 0, Short.MAX_VALUE)

```

```

        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(backgroundpanelLayout.createSequentialGroup())

    .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(122, 122, 122)
        .addComponent(productnameTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(190, 190, 190)
        .addComponent(jLabel5))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(30, 30, 30)
        .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
93, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(productdateTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 152, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(29, 29, 29)
        .addComponent(productpriceTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 93, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(41, 41, 41)

    .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.TRAILING)
        .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE,
361, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addComponent(jLabel2)
        .addGap(71, 71, 71)
        .addComponent(jLabel3)
        .addGap(74, 74, 74)
        .addComponent(jLabel4))))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(74, 74, 74)
        .addComponent(producteditBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 98, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(59, 59, 59)
        .addComponent(productdeletepageBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 129,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap()))
    );
    backgroundpanelLayout.setVerticalGroup(

```

```

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(30, 30, 30)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(17, 17, 17)
        .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup())

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(jLabel4, javax.swing.GroupLayout.Alignment.TRAILING))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.TRAILING)
    .addComponent(productdateTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(productpriceTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup())
        .addComponent(jLabel2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jLabel5)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(productnameTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.TRAILING)
    .addComponent(productdeletepageBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 33, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(producteditBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

}

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

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

private void producteditBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String productid = productidTxt.getText();
    if(productdateTxt.getDate()!=null){
        String productdate = productdateTxt.getDate().toString();
        //using java date library, cuts date into a simpler format to be able to view on the table.
        String mfgmonth=productdate.substring(4,11);
        String mfgyear=productdate.substring(24,28);
        String mfgdate=mfgmonth.concat(mfgyear);
        Date date = new Date();
        SimpleDateFormat formatter = new SimpleDateFormat("MMM dd YYYY");
        // checks if mfg date is valid to the current date.
        String currentDate= formatter.format(date);
        Integer datecheck = currentDate.compareTo(mfgdate);
        if(datecheck>0){
            String productprice= productpriceTxt.getText();
            String productname=productnameTxt.getText();
            // checks if product id is numeric and product price is a integer or float.
            if(productid.length()>0 && productid.matches("[0-9]+")){
                if(productprice.length()>0 && productprice.matches("\\d+(\\.\\d+)?")){
                    if(productname.length()>0){

try {
    /* establish connection for MySQL */
    Class.forName("com.mysql.cj.jdbc.Driver");
    String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
    Connection con=DriverManager.getConnection(url,"root","Hari2006");
    String sql = "SELECT * FROM product_table;";
    Integer count =0;
    // create an array list to check if product id exists or not in the database table
    ArrayList<String> ids = new ArrayList<String>();
    pstatement = con.prepareStatement(sql);
    rset = pstatement.executeQuery();
    String add = "insert into product_table
values('"+productid+"','"+productname+"','"+0+"','"+mfgdate+"','"+productprice+"')";

```



```

        statement=con.createStatement();
        String edit = "UPDATE product_table SET productname='"+productname+"',
mfgdate='"+mfgdate+"', price='"+productprice+" WHERE productid='"+productid+"';";
        statement1=con.createStatement();
        while(rset.next()){
            String id = rset.getString("productid");
            ids.add(id);
        }
        for (int i = 0; i < ids.size(); i++) {
String eachid = ids.get(i);
if(eachid.equals(productid)){
    count=1;}
else{
    continue;
}

} // if product id exists, edit query is committed and logged.
    if(count==1){
        statement1.executeUpdate(edit);
        JOptionPane.showMessageDialog(null,"Product Edited!");
        StreamlinerLog.init();
        // logs info.
        StreamlinerLog.logger.info("Product ID: "+productid+" is edited by AdminID: "+ro);
        new product(ro).setVisible(true);
        setVisible(false);
        statement1.close();
    }
    // else new product id is created with the details that the staff has entered.
    else{
        statement.executeUpdate(add);
        JOptionPane.showMessageDialog(null,"Product Added");
        StreamlinerLog.init();
        // logs info.
        StreamlinerLog.logger.info("Product ID: "+productid+" is added by AdminID: "+ro);
        new product(ro).setVisible(true);
        setVisible(false);
        statement.close();
    }
    con.close();
}

// catch clause for MySQL and class error. logs errors as well
catch (SQLException e) {
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+e);
} catch (ClassNotFoundException ex) {

```

```

        Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(null, "Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC Driver.");
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception :: "+ex);
        // alerts user of any lack of/invalid information typed in text fields.
    } else{
        resultLbl.setText("Please enter a name for the product");
    } else{
        resultLbl.setText("Please enter a numeric Price");
    } else{
        resultLbl.setText("Please enter a numeric ProductID");
    }
    } else{
        resultLbl.setText("Please enter a valid manufacturing date for the product");
    }

    } else{
        resultLbl.setText("Please enter a date for the product");
    }
}

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

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

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

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

```

```

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

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

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;

```

```

private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
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.JPanel jPanel2;
private javax.swing.JButton logoutBtn;
private javax.swing.JButton productBtn;
private com.toedter.calendar.JDateChooser productdateTxt;
private javax.swing.JButton productdeletepageBtn;
private javax.swing.JButton producteditBtn;
private javax.swing.JTextField productidTxt;
private javax.swing.JTextField productnameTxt;
private javax.swing.JTextField productpriceTxt;
private javax.swing.JLabel resultLbl;
private javax.swing.JButton transactionBtn;
// End of variables declaration
}

```

Edittransaction:

```

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

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */
public class edittransaction extends javax.swing.JFrame {
    PreparedStatement pstatement,productpstatement;
    ResultSet rset,productrset;

```

```

Statement statement;
private String ro;
/**
 * Creates new form homepage
 */
public edittransaction(String rno) {
    initComponents();
    ro=rno;
}

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

    transactionflowBtn = new javax.swing.ButtonGroup();
    backgroundpanel = new javax.swing.JPanel();
    jPanel1 = new javax.swing.JPanel();
    productBtn = new javax.swing.JButton();
    homeBtn = new javax.swing.JButton();
    flowBtn = new javax.swing.JButton();
    transactionBtn = new javax.swing.JButton();
    changepasswordBtn = new javax.swing.JButton();
    logoutBtn = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    productidTxt = new javax.swing.JTextField();
    quantityTxt = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    transactioneditBtn = new javax.swing.JButton();
    outflowBtn = new javax.swing.JRadioButton();
    inflowBtn = new javax.swing.JRadioButton();
    transactiondeletepageBtn = new javax.swing.JButton();
    transactionidTxt = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    resultLbl = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setLocationByPlatform(true);
    setMaximumSize(new java.awt.Dimension(663, 403));
    setMinimumSize(new java.awt.Dimension(663, 403));
    setSize(new java.awt.Dimension(663, 403));

```

```

backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setBackground(new java.awt.Color(51, 51, 51));

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

```

```

});

changePasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changePasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changePasswordBtn.setText("Change Password");
changePasswordBtn.setBorder(null);
changePasswordBtn.setBorderPainted(false);
changePasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changePasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changePasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(productBtn)
                .add(homeBtn)
                .add(flowBtn)
                .add(transactionBtn)
                .add(changePasswordBtn)
                .add(logoutBtn)
            )
        )
);

```

```

        .addGap(64, 64, 64)
        .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    JPanel2.setBackground(new java.awt.Color(153, 153, 153));

    JLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    JLabel1.setText("Edit/Delete Transaction");

    javax.swing.GroupLayout JPanel2Layout = new javax.swing.GroupLayout(JPanel2);
    JPanel2.setLayout(JPanel2Layout);
    JPanel2Layout.setHorizontalGroup(
        JPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
JPanel2Layout.createSequentialGroup()
                .addContainerGap(105, Short.MAX_VALUE)
                .addComponent(JLabel1)
                .addGap(95, 95, 95))
    );
    JPanel2Layout.setVerticalGroup(
        JPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
JPanel2Layout.createSequentialGroup()
                .addContainerGap(35, Short.MAX_VALUE)
                .addComponent(JLabel1)
                .addGap(28, 28, 28))
    );

    productidTxt.setBackground(new java.awt.Color(255, 255, 255));
    productidTxt.addActionListener(new java.awt.event.ActionListener() {

```



```

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

    quantityTxt.setBackground(new java.awt.Color(255, 255, 255));
    quantityTxt.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            quantityTxtActionPerformed(evt);
        }
    });

    jLabel2.setBackground(new java.awt.Color(51, 51, 51));
    jLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(51, 51, 51));
    jLabel2.setText("Product Id: ");

    jLabel3.setBackground(new java.awt.Color(51, 51, 51));
    jLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
    jLabel3.setForeground(new java.awt.Color(51, 51, 51));
    jLabel3.setText("Quantity:");

    transactioneditBtn.setBackground(new java.awt.Color(51, 51, 51));
    transactioneditBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); //
NOI18N
    transactioneditBtn.setText("Edit");
    transactioneditBtn.setBorderPainted(false);
    transactioneditBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            transactioneditBtnActionPerformed(evt);
        }
    });

    transactionflowBtn.add(outflowBtn);
    outflowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
    outflowBtn.setForeground(new java.awt.Color(0, 0, 0));
    outflowBtn.setText("Outflow");
    outflowBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            outflowBtnActionPerformed(evt);
        }
    });

    transactionflowBtn.add(inflowBtn);
    inflowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
    inflowBtn.setForeground(new java.awt.Color(0, 0, 0));
    inflowBtn.setText("Inflow");

```

```

transactiondeletepageBtn.setBackground(new java.awt.Color(51, 51, 51));
transactiondeletepageBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); //
NOI18N
transactiondeletepageBtn.setText("Delete");
transactiondeletepageBtn.setBorderPainted(false);
transactiondeletepageBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactiondeletepageBtnActionPerformed(evt);
    }
});

transactionidTxt.setBackground(new java.awt.Color(255, 255, 255));
transactionidTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionidTxtActionPerformed(evt);
    }
});

jLabel4.setBackground(new java.awt.Color(51, 51, 51));
jLabel4.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel4.setForeground(new java.awt.Color(51, 51, 51));
jLabel4.setText("Transaction Id: ");

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(50, 50, 50))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

```

```

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

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()
        .addComponent(transactioneditBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(17, 17, 17))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING, false)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()
        .addComponent(inflowBtn)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel3))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()
        .addComponent(outflowBtn)

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

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addComponent(jLabel2,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE,
64, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel4,
javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE,
87, javax.swing.GroupLayout.PREFERRED_SIZE)))

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

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addComponent(quantityTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
125, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(productidTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 125, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(transactiondeletepageBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 97, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(transactionidTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, 125,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 332,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(112, 112, 112))))
    );
    backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(30, 30, 30)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(51, 51, 51)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
        .addComponent(transactionidTxt,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4))
        .addGap(18, 18, 18)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
        .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
        .addComponent(quantityTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3)))
        .addGroup(backgroundpanelLayout.createSequentialGroup())
            .addGap(70, 70, 70)
            .addComponent(outflowBtn)

```

```

        .addGap(18, 18, 18)
        .addComponent(inflowBtn)))
    .addGap(18, 18, 18)

    .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
    .BASELINE)
        .addComponent(transactioneditBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
    38, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(transactiondeletepageBtn,
    javax.swing.GroupLayout.PREFERRED_SIZE, 38, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(resultLbl, javax.swing.GroupLayout.DEFAULT_SIZE, 49,
    Short.MAX_VALUE)
        .addContainerGap())
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.PREFERRED_SIZE, 663,
    javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

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

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

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

private void flowBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new flowtransaction(ro).setVisible(true);
}

```

```

        setVisible(false);
    }

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

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

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

    private void transactioneditBtnActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String tranid = transactionidTxt.getText();
        String productid = productidTxt.getText();
        String qty = quantityTxt.getText();
        Integer count = 0;
        // checks if quantity entered is numeric
        if(qty.matches("[0-9]+")){
            Integer quantity = Integer.parseInt(qty);
            if(quantity>0){

                try {
                    // establish MySQL connection
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
                    Connection con=DriverManager.getConnection(url,"root","Hari2006");

                    String retrieve = "SELECT * FROM transactions_table WHERE
transactionsid='"+tranid+"'";
                    pstatement = con.prepareStatement(retrieve);
                    rset = pstatement.executeQuery();

                    if (rset.next()){
                        String id = rset.getString("transactionsid");
                        String prodid=rset.getString("productid");
                        String oldqty = rset.getString("quantity");
                        String transactiontype = rset.getString("transactiontype");
                        Integer oldquantity = Integer.parseInt(oldqty);
                        String get= "SELECT * FROM product_table WHERE productid='"+prodid+"'";
                        productpstatement = con.prepareStatement(get);

```

```

productrset = productpstatement.executeQuery();
if(productrset.next()){
    // resets quantity to what it would be before the transaction.
    String reverseqty = productrset.getString("quantity");
    String initprodid= productrset.getString("productid");
    Integer reversequantity = Integer.parseInt(reverseqty);

    Integer addresetquantity = reversequantity+oldquantity;

    Integer subresetquantity = reversequantity-oldquantity;
    if(productid.equals(initprodid)){
        count=1;
    }
}
// checks if transaction to be edited is outflow or inflow and sends respective query to the
database.
if (transactiontype.equals("O")){
    String addrevert = "UPDATE product_table SET
quantity='"+addresetquantity+"'WHERE productid='"+prodid+"'";
    statement = con.createStatement();
    statement.executeUpdate(addrevert);}
else{
    String subrevert = "UPDATE product_table SET
quantity='"+subresetquantity+"'WHERE productid='"+prodid+"'";
    statement = con.createStatement();
    statement.executeUpdate(subrevert);
}

// takes new values of the transaction entered by the user and commits actions.
String get1= "SELECT * FROM product_table WHERE productid='"+productid+"'";
productpstatement = con.prepareStatement(get1);
productrset = productpstatement.executeQuery();
if (productrset.next()) {
    String iniqty=productrset.getString("quantity");
    String productname=productrset.getString("productname");
    Integer initialqty= Integer.parseInt(iniqty);
    Integer finaladdqty = quantity+initialqty;
    Integer finalsubqty = initialqty-quantity;
    // when product is sold
    if (outflowBtn.isSelected()){
        if(finalsubqty>=0){
            String add = "UPDATE product_table SET quantity='"+finalsubqty+"'WHERE
productid='"+productid+"'";
            statement=con.createStatement();
            statement.executeUpdate(add);

```

```

        String transaction = "UPDATE transactions_table SET
productid='"+productid+"',productname='"+productname+"',quantity='"+quantity+"',transac
tiontype='"+O+"' WHERE transactionsid='"+tranid+"';";
        statement=con.createStatement();
        statement.executeUpdate(transaction);
        JOptionPane.showMessageDialog(null,"Transaction Edited!");
        StreamlinerLog.init();
        // logs info
        StreamlinerLog.logger.info("Transaction no: "+id+" edited by AdminID: "+ro);
        new transactionlist(ro).setVisible(true);
        setVisible(false);

    }
    else{
        resultLbl.setText("There is not enough quantity of the product to sell.");
        if(count==1){

            String returnback = "UPDATE product_table SET
quantity='"+reversequantity+"'WHERE productid='"+prodid+"';";
            statement = con.createStatement();
            statement.executeUpdate(returnback);

        }
    }
    // when product is restocked
    else if(inflowBtn.isSelected()){
        String add = "UPDATE product_table SET quantity='"+finaladdqty+"'WHERE
productid='"+productid+"';";
        statement=con.createStatement();
        statement.executeUpdate(add);
        String transaction = "UPDATE transactions_table SET
productid='"+productid+"',productname='"+productname+"',quantity='"+quantity+"',transac
tiontype='"+I+"' WHERE transactionsid='"+tranid+"';";
        statement=con.createStatement();
        statement.executeUpdate(transaction);
        JOptionPane.showMessageDialog(null,"Transaction Edited!");
        StreamlinerLog.init();
        // logs info
        StreamlinerLog.logger.info("Transaction no: "+id+" edited by AdminID: "+ro);
        new transactionlist(ro).setVisible(true);
        setVisible(false);
    }
    else{
        resultLbl.setText("Please select a radio button to process the transaction");
    }
}

```



```

    }

else{ resultLbl.setText("Please Enter Valid ProductID");
    }

    } }else{
        resultLbl.setText("Please Enter Valid TransactionID");} }
    // catch clause for MySQL and class error. logs errors as well
catch (SQLException e) {
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC Driver.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+ex);
}
}
}
}

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

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

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

```

```

}

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

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

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

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

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

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

```

```

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

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

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
private javax.swing.JRadioButton inflowBtn;
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.JPanel jPanel2;
private javax.swing.JButton logoutBtn;
private javax.swing.JRadioButton outflowBtn;
private javax.swing.JButton productBtn;
private javax.swing.JTextField productidTxt;
private javax.swing.JTextField quantityTxt;
private javax.swing.JLabel resultLbl;
private javax.swing.JButton transactionBtn;
private javax.swing.JButton transactiondeletepageBtn;
private javax.swing.JButton transactioneditBtn;
private javax.swing.ButtonGroup transactionflowBtn;
private javax.swing.JTextField transactionidTxt;
// End of variables declaration
}

```

Flowtransaction:

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template

```

```

*/

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import java.text.SimpleDateFormat;
import java.util.Date;
/**
 *

*/
public class flowtransaction extends javax.swing.JFrame {
    PreparedStatement pstatement;
    ResultSet rset;
    Statement statement;
    /**
     * Creates new form homepage
     */
    private String ro;
    public flowtransaction(String rno) {
        ro = rno;
        initComponents();

    }

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

        transactionflowBtn = new javax.swing.ButtonGroup();
        backgroundpanel = new javax.swing.JPanel();
        jPanel1 = new javax.swing.JPanel();
        productBtn = new javax.swing.JButton();
        homeBtn = new javax.swing.JButton();
        flowBtn = new javax.swing.JButton();
        transactionBtn = new javax.swing.JButton();

```

```

changePasswordBtn = new javax.swing.JButton();
logoutBtn = new javax.swing.JButton();
jPanel2 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
productIdTxt = new javax.swing.JTextField();
quantityTxt = new javax.swing.JTextField();
resultLbl = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
transactionsSubmitBtn = new javax.swing.JButton();
outflowBtn = new javax.swing.JRadioButton();
inflowBtn = new javax.swing.JRadioButton();
jLabel4 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setLocationByPlatform(true);
setMaximumSize(new java.awt.Dimension(665, 400));
setMinimumSize(new java.awt.Dimension(665, 400));

backgroundPanel.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setBackground(new java.awt.Color(51, 51, 51));

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");

```

```

flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changepasswordBtn.setText("Change Password");
changepasswordBtn.setBorder(null);
changepasswordBtn.setBorderPainted(false);
changepasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changepasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(loginBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(64, 64, 64)
        .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(loginBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    jLabel1.setText("Add Transaction");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(

```

```

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(jPanel2Layout.createSequentialGroup()
.addGap(69, 69, 69)
.addComponent(jLabel1)
.addContainerGap(69, Short.MAX_VALUE))
);
jPanel2Layout.setVerticalGroup(
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
.addContainerGap(37, Short.MAX_VALUE)
.addComponent(jLabel1)
.addGap(26, 26, 26))
);

productidTxt.setBackground(new java.awt.Color(255, 255, 255));
productidTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productidTxtActionPerformed(evt);
    }
});

quantityTxt.setBackground(new java.awt.Color(255, 255, 255));
quantityTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        quantityTxtActionPerformed(evt);
    }
});

resultLbl.setBackground(new java.awt.Color(51, 51, 51));
resultLbl.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
resultLbl.setForeground(new java.awt.Color(51, 51, 51));

jLabel3.setBackground(new java.awt.Color(51, 51, 51));
jLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel3.setForeground(new java.awt.Color(51, 51, 51));
jLabel3.setText("Quantity:");

transactionsSubmitBtn.setBackground(new java.awt.Color(51, 51, 51));
transactionsSubmitBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); //
NOI18N
transactionsSubmitBtn.setText("Submit");
transactionsSubmitBtn.setBorderPainted(false);
transactionsSubmitBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionsSubmitBtnActionPerformed(evt);
    }
}

```



```

});

transactionflowBtn.add(outflowBtn);
outflowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
outflowBtn.setForeground(new java.awt.Color(0, 0, 0));
outflowBtn.setText("Outflow");
outflowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        outflowBtnActionPerformed(evt);
    }
});

transactionflowBtn.add(inflowBtn);
inflowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
inflowBtn.setForeground(new java.awt.Color(0, 0, 0));
inflowBtn.setText("Inflow");

jLabel4.setBackground(new java.awt.Color(51, 51, 51));
jLabel4.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel4.setForeground(new java.awt.Color(51, 51, 51));
jLabel4.setText("Product Id: ");

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
backgroundpanelLayout.createSequentialGroup()
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING, false)
        .addGroup(backgroundpanelLayout.createSequentialGroup()
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel3)

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(quantityTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
125, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(backgroundpanelLayout.createSequentialGroup()
    .addComponent(outflowBtn)
    .addGap(44, 44, 44)
    .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 64,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
125, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGap(75, 75, 75))
    .addGroup(backgroundpanelLayout.createSequentialGroup()

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
    .addGap(188, 188, 188)
    .addComponent(transactionssubmitBtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 97, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(backgroundpanelLayout.createSequentialGroup()
    .addGap(64, 64, 64)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE,
340, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
    .addContainerGap(52, Short.MAX_VALUE))))
);
backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
    .addGap(30, 30, 30)
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(resultLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 19,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(24, 24, 24)

```

```

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASILINE)
    .addComponent(productidTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(outflowBtn)
    .addComponent(jLabel4))
.addGap(29, 29, 29)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASILINE)
    .addComponent(jLabel3)
    .addComponent(quantityTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(inflowBtn))
.addGap(38, 38, 38)
.addComponent(transactionssubmitBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
38, javax.swing.GroupLayout.PREFERRED_SIZE)
.addContainerGap(58, Short.MAX_VALUE))
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

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

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

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

```

```

}

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

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

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

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

private void transactionsubmitBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    // clears the alert label in case of a new transaction being added right after.
    resultLbl.setText("");
    String productid = productidTxt.getText();
    String qty = quantityTxt.getText();
    // acquires date and time of the transaction
    SimpleDateFormat formatter = new SimpleDateFormat("dd/MM/yyyy
HH:mm:ss");
    Date date = new Date();
    String transactiondate = formatter.format(date);
    // checks if quantity and product id is only numeric
    if(qty.matches("[0-9]+")){
        if (productid.matches("[0-9]+")){
            Integer quantity = Integer.parseInt(qty);
            if(quantity>0){

                try {
                    // establishes connection to MySQL
                    Class.forName("com.mysql.cj.jdbc.Driver");
                    String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
                    Connection con=DriverManager.getConnection(url,"root","Hari2006");
                    String get= "SELECT * FROM product_table WHERE productid='"+productid+"'";
                    pstatement = con.prepareStatement(get);
                    rset = pstatement.executeQuery();

```

```

        if (rset.next()) {
            resultLbl.setText("");
            String iniqty=rset.getString("quantity");
            String productname=rset.getString("productname");
            // acquires information of the quantity entered and calculates new quantity for the
            product depending on the radio button chosen
            Integer initialqty= Integer.parseInt(iniqty);
            Integer finaladdqty = quantity+initialqty;
            Integer finalsubqty = initialqty-quantity;

            if (outflowBtn.isSelected()){
                if(finalsubqty<=0){
                    resultLbl.setText("There is not enough quantity of the product to sell.");
                    return;
                }
                else{
                    // when a quantity of product is sold.
                    String add = "UPDATE product_table SET quantity='"+finalsubqty+"'WHERE
                    productid='"+productid+"'";
                    statement=con.createStatement();
                    statement.executeUpdate(add);
                    String transaction = "insert into transactions_table
                    (productid,productname,quantity,transactiondate,transactiontype)
                    values('"+productid+"','"+productname+"','"+quantity+"','"+transactiondate+"','"+O+"')";
                    statement=con.createStatement();
                    statement.executeUpdate(transaction);
                    JOptionPane.showMessageDialog(null,"Transaction Processed!");
                    StreamlinerLog.init();
                    // logs info.
                    StreamlinerLog.logger.info("Transaction processed by AdminID: "+ro);
                    productidTxt.setText("");
                    quantityTxt.setText("");}
                }
            else if(inflowBtn.isSelected()){
                // when quantity of a product is restocked
                String add = "UPDATE product_table SET quantity='"+finaladdqty+"'WHERE
                productid='"+productid+"'";
                statement=con.createStatement();
                statement.executeUpdate(add);
                String transaction = "insert into transactions_table
                (productid,productname,quantity,transactiondate,transactiontype)
                values('"+productid+"','"+productname+"','"+quantity+"','"+transactiondate+"','"+I+"')";
                statement=con.createStatement();
                statement.executeUpdate(transaction);

                JOptionPane.showMessageDialog(null,"Transaction Processed!");

```

```

        StreamlinerLog.init();
        // logs info.
        StreamlinerLog.logger.info("Transaction processed by AdminID: "+ro);
        statement.close();

        productidTxt.setText("");
        quantityTxt.setText("");
    }
    else{
        resultLbl.setText("Please select the flow button to process the transaction");
    }

}

else{
    resultLbl.setText("Invalid ProductID entered");
}

        con.close();

    } // catch clause for MySQL and class error. logs errors as well
catch (SQLException e) {
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception :: "+ex);
}

    }
    else{
        resultLbl.setText("Please enter a valid quantity");
    }
    }else{
        resultLbl.setText("Please enter numeric values for Quantity & ProductID");
    }
}
else{
    resultLbl.setText("Please enter numeric values for Quantity & ProductID");
}
}

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

```

```

    // TODO add your handling code here:
}

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

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
        new login().setVisible(true);
        setVisible(false);
        StreamlinerLog.init();
        StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

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

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

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

```

```

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

```

```

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

```

```

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

```

```

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
private javax.swing.JRadioButton inflowBtn;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JButton logoutBtn;
private javax.swing.JRadioButton outflowBtn;
private javax.swing.JButton productBtn;
private javax.swing.JTextField productidTxt;
private javax.swing.JTextField quantityTxt;
private javax.swing.JLabel resultLbl;
private javax.swing.JButton transactionBtn;
private javax.swing.ButtonGroup transactionflowBtn;
private javax.swing.JButton transactionsubmitBtn;
// End of variables declaration
}

```

Forgotpassword:

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license

```


* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template

```
*/  
  
/**  
 *  
 *  
 */  
import java.awt.Color;  
import java.sql.*;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.swing.JOptionPane;  
import javax.swing.JFrame;  
import java.text.SimpleDateFormat;  
import java.util.Date;  
import java.util.*;  
import javax.mail.*;  
import javax.mail.internet.*;  
import javax.activation.*;  
import javax.mail.Session;  
import javax.mail.Transport;  
import java.util.logging.FileHandler;  
import java.util.logging.SimpleFormatter;
```

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

```
    PreparedStatement pstatement;  
    Statement statement;  
    ResultSet rset;  
    Integer attempt = 0;
```

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

```

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

    jCheckBoxMenuItem1 = new javax.swing.JCheckBoxMenuItem();
    JPanel1 = new javax.swing.JPanel();
    JLabel3 = new javax.swing.JLabel();
    JLabel5 = new javax.swing.JLabel();
    JPanel2 = new javax.swing.JPanel();
    nameTxt = new javax.swing.JTextField();
    jSeparator1 = new javax.swing.JSeparator();
    jSeparator3 = new javax.swing.JSeparator();
    JLabel4 = new javax.swing.JLabel();
    forgotPasswordBtn = new javax.swing.JButton();
    resultLbl = new javax.swing.JLabel();
    JLabel6 = new javax.swing.JLabel();
    JLabel7 = new javax.swing.JLabel();
    registerBtn = new javax.swing.JButton();
    loginBtn = new javax.swing.JButton();
    JLabel9 = new javax.swing.JLabel();
    JLabel1 = new javax.swing.JLabel();

    jCheckBoxMenuItem1.setSelected(true);
    jCheckBoxMenuItem1.setText("jCheckBoxMenuItem");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
    setMaximumSize(new java.awt.Dimension(660, 401));
    setMinimumSize(new java.awt.Dimension(660, 401));
    setSize(new java.awt.Dimension(660, 401));

    JPanel1.setBackground(new java.awt.Color(204, 204, 255));
    JPanel1.setForeground(new java.awt.Color(204, 204, 255));

    JLabel3.setBackground(new java.awt.Color(0, 0, 0));
    JLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 36)); // NOI18N
    JLabel3.setForeground(new java.awt.Color(0, 0, 0));
    JLabel3.setText("Interface!");

    JLabel5.setBackground(new java.awt.Color(0, 0, 0));
    JLabel5.setFont(new java.awt.Font("Shree Devanagari 714", 0, 36)); // NOI18N

```

```

jLabel5.setForeground(new java.awt.Color(0, 0, 0));
jLabel5.setText("Welcome to the");

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(41, 41, Short.MAX_VALUE)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jLabel5)
                    .addGap(35, 35, 35))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jLabel3)
                    .addGap(83, 83, 83)))
            .addContainerGap());
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(128, 128, Short.MAX_VALUE)
            .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 52,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(163, 163, 163)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 52,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap());

jPanel2.setBackground(new java.awt.Color(153, 153, 153));
jPanel2.setForeground(new java.awt.Color(186, 79, 84));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

nameTxt.setBackground(new java.awt.Color(153, 153, 153));
nameTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
nameTxt.setForeground(new java.awt.Color(204, 204, 204));
nameTxt.setToolTipText("");
nameTxt.setBorder(null);
nameTxt.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        nameTxtFocusGained(evt);
    }
}

```

```

        public void focusLost(java.awt.event.FocusEvent evt) {
            nameTxtFocusLost(evt);
        }
    });
    nameTxt.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            nameTxtActionPerformed(evt);
        }
    });
    jPanel2.add(nameTxt, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 140, 190, -1));
    jPanel2.add(jSeparator1, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 160, -1, -1));

    jSeparator3.setBackground(new java.awt.Color(255, 255, 255));
    jSeparator3.setForeground(new java.awt.Color(255, 255, 255));
    jPanel2.add(jSeparator3, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 160, 190, 20));

    jLabel4.setBackground(new java.awt.Color(153, 153, 153));
    jLabel4.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
    jLabel4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(255, 255, 255)));
    jPanel2.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 190, 90, 30));

    forgotPasswordBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledBackground"));
    forgotPasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
    forgotPasswordBtn.setForeground(new java.awt.Color(0, 0, 0));
    forgotPasswordBtn.setText("Submit");
    forgotPasswordBtn.setToolTipText("");
    forgotPasswordBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(255, 255, 255)));
    forgotPasswordBtn.setBorderPainted(false);
    forgotPasswordBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            forgotPasswordBtnActionPerformed(evt);
        }
    });
    jPanel2.add(forgotPasswordBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 190, 90, 30));
    jPanel2.add(resultLbl, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 230, 300, 50));

```

```

jLabel6.setBackground(new java.awt.Color(0, 0, 0));
jLabel6.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel6.setText("Existing Account?");
jPanel2.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(60, 350, -1,
30));

jLabel7.setBackground(new java.awt.Color(0, 0, 0));
jLabel7.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
jLabel7.setText("Forgot Password");
jPanel2.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 70, -1, 52));

registerBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledB
ackground"));
registerBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
registerBtn.setForeground(new java.awt.Color(0, 0, 0));
registerBtn.setText("Register");
registerBtn.setToolTipText("");
registerBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(255, 255, 255)));
registerBtn.setBorderPainted(false);
registerBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        registerBtnActionPerformed(evt);
    }
});
jPanel2.add(registerBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(180, 310,
70, 30));

loginBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledBack
ground"));
loginBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
loginBtn.setForeground(new java.awt.Color(0, 0, 0));
loginBtn.setText("Login");
loginBtn.setToolTipText("");
loginBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(255, 255, 255)));
loginBtn.setBorderPainted(false);
loginBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        loginBtnActionPerformed(evt);
    }
});
jPanel2.add(loginBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(180, 350, 70,
30));

```

```

jLabel9.setBackground(new java.awt.Color(0, 0, 0));
jLabel9.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel9.setText("New Account?");
jPanel2.add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 310, -1,
30));

jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel1.setText("Username:");
jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 120, -1, -
1));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, 0)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE, 327,
Short.MAX_VALUE))
        );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );

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

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

private void forgotPasswordBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    resultLbl.setText("");
    String username = nameTxt.getText();

    try {
        // establish connection to MySQL
        Class.forName("com.mysql.cj.jdbc.Driver");
        String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
        Connection con=DriverManager.getConnection(url,"root","Hari2006");
    }

```

```

        String emailcheck = "SELECT * FROM admin_table WHERE
Username='"+username+"'";
        // retrieves email id of the username entered
        pstatement = con.prepareStatement(emailcheck);
        rset = pstatement.executeQuery();
        if(rset.next()){
            String useremail = rset.getString("Email");
            String pw = rset.getString("Password");
            // retrieves and runs the class "Emailsend" to send the password of the account to
the user's email address.
            Emailsend.sendEmail(useremail, pw);
            StreamlinerLog.init();
            //logs info
            StreamlinerLog.logger.info("Password email sent to "+useremail+" for Username:
"+username);
            JOptionPane.showMessageDialog(null,"Password sent to respective E-mail
address.");

        }
        else{
            resultLbl.setText("Invalid Username Provided");
            StreamlinerLog.init();
            //logs info
            StreamlinerLog.logger.info("Invalid Username Provided");
        }

        // catch clause for MySQL and class error. logs errors as well

        } catch (SQLException e) {
            JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
            StreamlinerLog.init();
            StreamlinerLog.logger.log(Level.WARNING,"Exception ::", e);
        } catch (ClassNotFoundException e) {
            Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, e);
            JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
            StreamlinerLog.init();
            StreamlinerLog.logger.severe("Exception ::"+e);
        } catch (MessagingException e) {
            Logger.getLogger(forgotpassword.class.getName()).log(Level.SEVERE, null, e);
            JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to send e-mail to client.");
            StreamlinerLog.init();
            StreamlinerLog.logger.severe("Exception ::"+e);
        }
    }

```

```

    }

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

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

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

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

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */

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

```



```

        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(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);
    }
    //</editor-fold>

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

// Variables declaration - do not modify
public static javax.swing.JButton forgotPasswordBtn;
private javax.swing.JCheckBoxMenuItem jCheckBoxMenuItem1;
private javax.swing.JLabel jLabel1;
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.JLabel jLabel9;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JSeparator jSeparator3;
public static javax.swing.JButton loginBtn;
private javax.swing.JTextField nameTxt;
public static javax.swing.JButton registerBtn;
private javax.swing.JLabel resultLbl;
// End of variables declaration
}

```

Home:

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
 this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
 template
 */
```

```
/**
 *
 *
 */
import java.awt.Color;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import javax.swing.JTable;
import javax.swing.table.DefaultTableCellRenderer;
```

```
public class home extends javax.swing.JFrame {
    Statement statement;
    ResultSet rset;
    private String ro;
    /**
     * Creates new form homepage
     */
    public home() {
        initComponents();
    }
    public home(String rno) {
        initComponents();
        ro = rno;
        // creates the table for the low quantity products
        DefaultTableModel tblModel = (DefaultTableModel)alertqty_table.getModel();
        try {
            // establishes connection to MySQL
            Class.forName("com.mysql.cj.jdbc.Driver");
            String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
```

```

        Connection con=DriverManager.getConnection(url,"root","Hari2006");
        statement = con.createStatement();
        String sql = "SELECT * FROM product_table;";
        rset = statement.executeQuery(sql);
        while(tblModel.getRowCount()>0)
            tblModel.removeRow(0);
        while(rset.next()){
            //checks products which have quantity less than 11 and adds them to the table
            String productname = rset.getString("productname");
            String qty = rset.getString("quantity");
            Integer quantity = Integer.parseInt(qty);
            if(quantity<11){

                Object tbData[] = {productname,quantity};

                tblModel.addRow(tbData);}
        }
        statement.close();
        con.close();
    }
    catch (SQLException e) {
        // catch clause for MySQL and class error. logs errors as well
        JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection to database.");
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception :: "+e);
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception :: "+ex);
    }
}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    backgroundpanel = new javax.swing.JPanel();
    jPanel1 = new javax.swing.JPanel();
    productBtn = new javax.swing.JButton();
    homeBtn = new javax.swing.JButton();

```

```

flowBtn = new javax.swing.JButton();
transactionBtn = new javax.swing.JButton();
changepasswordBtn = new javax.swing.JButton();
logoutBtn = new javax.swing.JButton();
jPanel2 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
alertqty_table = new javax.swing.JTable();
homeLbl = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setLocationByPlatform(true);
setMaximumSize(new java.awt.Dimension(663, 427));
setMinimumSize(new java.awt.Dimension(663, 427));

backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));
backgroundpanel.setMaximumSize(new java.awt.Dimension(677, 427));

jPanel1.setBackground(new java.awt.Color(51, 51, 51));

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);

```

```

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

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changepasswordBtn.setText("Change Password");
changepasswordBtn.setBorder(null);
changepasswordBtn.setBorderPainted(false);
changepasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changepasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

```

```

        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(64, 64, 64)
        .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(123, Short.MAX_VALUE))
    );

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    jLabel1.setText("Welcome to Streamliner!");

    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
        .addContainerGap(110, Short.MAX_VALUE)
        .addComponent(jLabel1)
        .addGap(81, 81, 81))
    );
    jPanel2Layout.setVerticalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
        .addContainerGap(34, Short.MAX_VALUE)
        .addComponent(jLabel1)
        .addGap(29, 29, 29))
    );

    alertqty_table.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null},
            {null, null},
            {null, null},
            {null, null}
        },
        new String [] {
            "Name", "Qty"
        }
    ));
    jScrollPane1.setViewportView(alertqty_table);
    if (alertqty_table.getColumnModel().getColumnCount() > 0) {
        alertqty_table.getColumnModel().getColumn(0).setResizable(false);
        alertqty_table.getColumnModel().getColumn(0).setPreferredWidth(100);
        alertqty_table.getColumnModel().getColumn(1).setResizable(false);
        alertqty_table.getColumnModel().getColumn(1).setPreferredWidth(5);
    }

    homeLbl.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
    homeLbl.setText("Items in Low Quantity:");

    javax.swing.GroupLayout backgroundpanelLayout = new
    javax.swing.GroupLayout(backgroundpanel);
    backgroundpanel.setLayout(backgroundpanelLayout);
    backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(backgroundpanelLayout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(176, 176, 176)
        .addComponent(homeLbl))
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(27, 27, 27)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 409,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(30, 30, 30)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(homeLbl, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(backgroundpanel, javax.swing.GroupLayout.PREFERRED_SIZE, 663,
javax.swing.GroupLayout.PREFERRED_SIZE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

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

```



```

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

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

private void changepasswordBtnActionPerformed(java.awt.event.ActionEvent evt) {
    new changepassword(ro).setVisible(true);
    setVisible(false);
}

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

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

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

```

```

        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
        feel.
        * For details see
        http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
        */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

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

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JTable alertqty_table;
private javax.swing.JPanel backgroundpanel;
public static javax.swing.JButton changepasswordBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;

```

```

private javax.swing.JLabel homeLbl;
private javax.swing.JLabel jLabel1;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JButton logoutBtn;
private javax.swing.JButton productBtn;
private javax.swing.JButton transactionBtn;
// End of variables declaration
}

Login:
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */
import java.awt.Color;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JFrame;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.mail.MessagingException;

public class login extends javax.swing.JFrame {

    PreparedStatement pstatement;
    Statement statement;
    ResultSet rset;
    Integer attempt = 0;

    /**
     * Creates new form login

```

```

*/
public login() {
    initComponents();
}

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

    jCheckBoxMenuItem1 = new javax.swing.JCheckBoxMenuItem();
    jPanel1 = new javax.swing.JPanel();
    jLabel3 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jPanel2 = new javax.swing.JPanel();
    nameTxt = new javax.swing.JTextField();
    jSeparator1 = new javax.swing.JSeparator();
    jSeparator2 = new javax.swing.JSeparator();
    jSeparator3 = new javax.swing.JSeparator();
    jLabel4 = new javax.swing.JLabel();
    loginBtn = new javax.swing.JButton();
    resultLbl = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    forgotpasswordBtn = new javax.swing.JButton();
    passwordTxt = new javax.swing.JPasswordField();
    registerBtn = new javax.swing.JButton();
    jLabel8 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();

    jCheckBoxMenuItem1.setSelected(true);
    jCheckBoxMenuItem1.setText("jCheckBoxMenuItem1");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
    setMaximumSize(new java.awt.Dimension(660, 401));
    setMinimumSize(new java.awt.Dimension(660, 401));
    setSize(new java.awt.Dimension(660, 401));

```

```

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

jLabel3.setBackground(new java.awt.Color(0, 0, 0));
jLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 36)); // NOI18N
jLabel3.setForeground(new java.awt.Color(0, 0, 0));
jLabel3.setText("Interface!");

jLabel5.setBackground(new java.awt.Color(0, 0, 0));
jLabel5.setFont(new java.awt.Font("Shree Devanagari 714", 0, 36)); // NOI18N
jLabel5.setForeground(new java.awt.Color(0, 0, 0));
jLabel5.setText("Welcome to the");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addContainerGap(41, Short.MAX_VALUE)
                )
            )
        );

jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .add(jLabel5)
                                .addGap(35, 35, 35))
                            .add(jLabel3)
                            .addGap(83, 83, 83)))
                        .addGap(128, Short.MAX_VALUE))
                    .add(jLabel3)
                    .addGap(163, 163, 163))
            )
        );

jPanel2.setBackground(new java.awt.Color(153, 153, 153));
jPanel2.setForeground(new java.awt.Color(186, 79, 84));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

```

```

nameTxt.setBackground(new java.awt.Color(153, 153, 153));
nameTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
nameTxt.setForeground(new java.awt.Color(204, 204, 204));
nameTxt.setToolTipText("");
nameTxt.setBorder(null);
nameTxt.addFocusListener(new java.awt.event.FocusAdapter() {
    public void focusGained(java.awt.event.FocusEvent evt) {
        nameTxtFocusGained(evt);
    }
    public void focusLost(java.awt.event.FocusEvent evt) {
        nameTxtFocusLost(evt);
    }
});
nameTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        nameTxtActionPerformed(evt);
    }
});
jPanel2.add(nameTxt, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 130, 190,
-1));
jPanel2.add(jSeparator1, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 160, -
1, -1));

jSeparator2.setBackground(new java.awt.Color(255, 255, 255));
jSeparator2.setForeground(new java.awt.Color(255, 255, 255));
jPanel2.add(jSeparator2, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 200,
190, 20));

jSeparator3.setBackground(new java.awt.Color(255, 255, 255));
jSeparator3.setForeground(new java.awt.Color(255, 255, 255));
jPanel2.add(jSeparator3, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 150,
190, 20));

jLabel4.setBackground(new java.awt.Color(153, 153, 153));
jLabel4.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
jLabel4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(255,
255, 255)));
jPanel2.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 230, 90,
30));

loginBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledBack
ground"));
loginBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
loginBtn.setForeground(new java.awt.Color(0, 0, 0));
loginBtn.setText("Login");
loginBtn.setToolTipText("");

```

```

        loginBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(255, 255, 255)));
        loginBtn.setBorderPainted(false);
        loginBtn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                loginBtnActionPerformed(evt);
            }
        });
        jPanel2.add(loginBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 230, 90,
30));
        jPanel2.add(resultLbl, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 270, 300,
30));

        jLabel6.setBackground(new java.awt.Color(0, 0, 0));
        jLabel6.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
        jLabel6.setText("Forgot Password?");
        jPanel2.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(60, 310, -1,
30));

        jLabel7.setBackground(new java.awt.Color(0, 0, 0));
        jLabel7.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
        jLabel7.setText("Login");
        jPanel2.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 50, -1,
52));

forgotpasswordBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.dissabledBackground"));
        forgotpasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
        forgotpasswordBtn.setForeground(new java.awt.Color(0, 0, 0));
        forgotpasswordBtn.setText("Password");
        forgotpasswordBtn.setToolTipText("");
        forgotpasswordBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(255, 255, 255)));
        forgotpasswordBtn.setBorderPainted(false);
        forgotpasswordBtn.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                forgotpasswordBtnActionPerformed(evt);
            }
        });
        jPanel2.add(forgotpasswordBtn, new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 310, 70, 30));

        passwordTxt.setBackground(new java.awt.Color(153, 153, 153));
        passwordTxt.setBorder(null);
        passwordTxt.addActionListener(new java.awt.event.ActionListener() {

```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            passwordTxtActionPerformed(evt);
        }
    });
    jPanel2.add(passwordTxt, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 180,
190, -1));

registerBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledB
ackground"));
registerBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
registerBtn.setForeground(new java.awt.Color(0, 0, 0));
registerBtn.setText("Register");
registerBtn.setToolTipText("");
registerBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(255, 255, 255)));
registerBtn.setBorderPainted(false);
registerBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        registerBtnActionPerformed(evt);
    }
});
jPanel2.add(registerBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(180, 350,
70, 30));

jLabel8.setBackground(new java.awt.Color(0, 0, 0));
jLabel8.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel8.setText("New Account?");
jPanel2.add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 350, -1,
30));

jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel1.setText("Password:");
jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 160, -1, -
1));

jLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 12)); // NOI18N
jLabel2.setText("Username:");
jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 100, -1, -
1));

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)
                .add(jLabel1)
                .add(jLabel2)
                .add(jLabel8)
                .add(registerBtn)
                .add(passwordTxt)
            )
            .addContainerGap(110, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .add(jLabel1)
            .add(jLabel2)
            .add(jLabel8)
            .add(registerBtn)
            .add(passwordTxt)
            .addContainerGap(110, Short.MAX_VALUE))
    );

```



```

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE, 327,
Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

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

```

```

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

```

```

private void loginBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    resultLbl.setText("");
    String username = nameTxt.getText();
    String password = passwordTxt.getText();
}

```

```

try {
    /*Establishing connection between page and database */
    Class.forName("com.mysql.cj.jdbc.Driver");
    String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
    Connection con=DriverManager.getConnection(url,"root","Hari2006");
    /*Checking if application is locked*/
    String attemptcheck = "SELECT * FROM attemptlogin";
        pstatement = con.prepareStatement(attemptcheck);
    rset = pstatement.executeQuery();
    SimpleDateFormat formatter = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
        Date dates = new Date();
        String dates = formatter.format(dates);
    Integer attemptawaiting = 0;
    Integer repeat = 0;
    // checking if current time is past unlocktime if existing.
    while(rset.next()){
        String unlockdate = rset.getString("unlocktime");
        if(dates.compareTo(unlockdate)>0){
            attemptawaiting++;
        }
    }
}

```

```

        System.out.println(attemptawaiting);
    }
    repeat++;
    System.out.println(attemptawaiting);
}
if(attemptawaiting == repeat){
    if(attempt<5){
        /*Checking if empty username or password is entered*/
        if(password.length()>0){
            if(username.length()>0){
                String sql = "SELECT * FROM admin_table WHERE Username='"+username+"' AND
Password='"+password+"';";
                pstatement = con.prepareStatement(sql);
                rset = pstatement.executeQuery();

                if (rset.next()) {
                    // Successful login
                    /*If username and password match database details, system logs information and
sends admin id to all the other tabs of the application*/
                    String rno=rset.getString("Userid");
                    StreamlinerLog.init();
                    // logs info.
                    StreamlinerLog.logger.info("AdminID: "+rno+" has logged in");
                    //provides userid to all tabs of the application in order for easy logging.
                    new home(rno).setVisible(true);
                    new changepassword(rno);
                    new product(rno);
                    new flowtransaction(rno);
                    new deletetransaction(rno);
                    new deleteproduct(rno);
                    new editproduct(rno);
                    new edittransaction(rno);
                    new transactionlist(rno);
                    setVisible(false);
                    pstatement.close();

                } else {
                    // Invalid login
                    resultLbl.setText("Invalid Username or Password");
                    StreamlinerLog.init();
                    // logs info.
                    StreamlinerLog.logger.info("Invalid Attempt to Login");
                    attempt++;
                    if(attempt==5){
                        StreamlinerLog.init();
                        // locks system for 30 minutes if 5 invalid attempts are done simultaneously

```

```

StreamlinerLog.logger.severe("5 Invalid Attempts to Login, Locked for 30 minutes");
String Adminemail = "donotreplystreamliner@outlook.com";
Emailalertsend.sendEmail(Adminemail);
StreamlinerLog.init();
StreamlinerLog.logger.info("Alert send to Admin E-mail");
// creating the unlock date.
    Date date = new Date();
    String attemptdate = formatter.format(date);
    String initdays =attemptdate.substring(0,2);
    Integer inidays = Integer.parseInt(initdays);
    String initmonth =attemptdate.substring(3,5);
    Integer inimonth = Integer.parseInt(initmonth);
    String inityear =attemptdate.substring(6,10);
    Integer iniyear = Integer.parseInt(inityear);
    String minutes=attemptdate.substring(14,16);
    String seconds=attemptdate.substring(17,19);
    String hours=attemptdate.substring(11,13);
    Integer min= Integer.parseInt(minutes);
    min = min + 30;
    if(min>=60){
        Integer newminutes=min-60;
        String newminute=Integer.toString(newminutes);
        if(newminutes<10){
            newminute="0"+newminute;
        }
        Integer hour= Integer.parseInt(hours);
        hour = hour + 1;
        String newhour=Integer.toString(hour);
        if(hour<10){
            newhour = "0"+newhour;
        }
        if(hour>=24){
            hour = hour-24;
            newhour= Integer.toString(hour);
            if(hour<10){
                newhour="0"+hour;
            }
            inidays = inidays+1;
            System.out.println(inidays);
            // switchcase scenario for month change.
            switch(inimonth){
                case 1:
                    if(inidays>31){
                        inidays=inidays-31;
                        inimonth=inimonth+1;
                    }

```

```

break;
case 2:
    if(iniyear%4==0){
        if(inidays>29){
            inidays=inidays-29;
            inimonth=inimonth+1;
        }

    }
    else{
        if(inidays>28){
            inidays=inidays-28;
            inimonth=inimonth+1;
        }
    }
break;
case 3:
    if(inidays>31){
        inidays=inidays-31;
        inimonth=inimonth+1;
    }
break;
case 4:
    if(inidays>30){
        inidays=inidays-30;
        inimonth=inimonth+1;
    }
break;
case 5:
    if(inidays>31){
        inidays=inidays-31;
        inimonth=inimonth+1;
    }
break;
case 6:
    if(inidays>30){
        inidays=inidays-30;
        inimonth=inimonth+1;
    }
break;
case 7:
    if(inidays>31){
        inidays=inidays-31;
        inimonth=inimonth+1;
    }
break;
case 8:
    if(inidays>31){

```

```

        inidays=inidays-31;
        inimonth=inimonth+1;
    }
    break;
    case 9:
        if(inidays>30){
            inidays=inidays-30;
            inimonth=inimonth+1;
        }
        break;
    case 10:
        if(inidays>31){
            inidays=inidays-31;
            inimonth=inimonth+1;
        }
        break;
    case 11:
        if(inidays>30){
            inidays=inidays-30;
            inimonth=inimonth+1;
        }
        break;
    case 12:
        if(inidays>31){
            inidays=inidays-31;
            inimonth=inimonth+1;
        }
        break;
    }
    if(inimonth>12){
        iniyear=iniyear+1;
    }
    String finaldays=Integer.toString(inidays);
    if(inidays<10){
        finaldays="";
        finaldays=finaldays.concat("0"+inidays);
    }

    String finaldate=finaldays.concat("/"+inimonth+"/"+iniyear+"
"+newhour+": "+newminute+": "+seconds);

    String sqltime = "insert into attemptlogin (locktime,unlocktime)
values('"+attemptdate+"','"+finaldate+"')";
    statement = con.createStatement();
    statement.executeUpdate(sqltime);

```



```

        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception :: "+ex);
    } catch (MessagingException ex) {
        Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception :: "+ex);
    }
}

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

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

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

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

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

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */

    <editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

```

```

        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
        feel.
        * For details see
        http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
        */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

        java.util.logging.Logger.getLogger(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);
        }
    }
    //</editor-fold>

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

// Variables declaration - do not modify
public static javax.swing.JButton forgotpasswordBtn;
private javax.swing.JCheckBoxMenuItem jCheckBoxMenuItem1;
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.JLabel jLabel8;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JSeparator jSeparator2;
private javax.swing.JSeparator jSeparator3;
public static javax.swing.JButton loginBtn;
private javax.swing.JTextField nameTxt;
private javax.swing.JPasswordField passwordTxt;
public static javax.swing.JButton registerBtn;
private javax.swing.JLabel resultLbl;
// End of variables declaration
}

```

Product:

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */
import java.awt.Color;
import java.awt.Component;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import javax.swing.JTable;
import javax.swing.table.DefaultTableCellRenderer;
import javax.swing.table.TableCellRenderer;

/**
 *
 *
 */
public class product extends javax.swing.JFrame {
Statement statement;
ResultSet rset;

```

```

/**
 * Creates new form homepage
 */
//retrieving userid from login tab
private String ro;
public product(String rno) {
    initComponents();
    ro=rno;
    product_table.setAutoCreateRowSorter(true);
}

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

    backgroundpanel = new javax.swing.JPanel();
    jPanel1 = new javax.swing.JPanel();
    productBtn = new javax.swing.JButton();
    homeBtn = new javax.swing.JButton();
    flowBtn = new javax.swing.JButton();
    transactionBtn = new javax.swing.JButton();
    changepasswordBtn = new javax.swing.JButton();
    logoutBtn = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    product_table = new javax.swing.JTable();
    refreshBtn = new javax.swing.JButton();
    editproductpageBtn = new javax.swing.JButton();
    deleteproductpageBtn = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setLocationByPlatform(true);
    setMaximumSize(new java.awt.Dimension(660, 509));
    setMinimumSize(new java.awt.Dimension(660, 509));

    backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));

    jPanel1.setBackground(new java.awt.Color(51, 51, 51));

```

```

productBtn.setBackground(new java.awt.Color(61, 61, 61));
productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
productBtn.setText("Product");
productBtn.setBorder(null);
productBtn.setBorderPainted(false);
productBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        productBtnActionPerformed(evt);
    }
});

homeBtn.setBackground(new java.awt.Color(67, 67, 67));
homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
homeBtn.setText("Home");
homeBtn.setBorder(null);
homeBtn.setBorderPainted(false);
homeBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        homeBtnActionPerformed(evt);
    }
});

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N

```

```

changePasswordBtn.setText("Change Password");
changePasswordBtn.setBorder(null);
changePasswordBtn.setBorderPainted(false);
changePasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changePasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changePasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, 0)

```

```

        .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, 0)
        .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(205, Short.MAX_VALUE)
    );

    JPanel2.setBackground(new java.awt.Color(153, 153, 153));

    JLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
    JLabel1.setText("Product List");

    javax.swing.GroupLayout JPanel2Layout = new javax.swing.GroupLayout(JPanel2);
    JPanel2.setLayout(JPanel2Layout);
    JPanel2Layout.setHorizontalGroup(
        JPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(JPanel2Layout.createSequentialGroup()
                .addGap(87, 87, 87)
                .addComponent(JLabel1)
                .addContainerGap(89, Short.MAX_VALUE))
    );
    JPanel2Layout.setVerticalGroup(
        JPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
JPanel2Layout.createSequentialGroup()
                .addContainerGap(31, Short.MAX_VALUE)
                .addComponent(JLabel1)
                .addGap(23, 23, 23))
    );

    product_table.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null, null},
            {null, null, null, null, null},
            {null, null, null, null, null},
            {null, null, null, null, null}
        },
    ),

```

```

        new String [] {
            "ID", "Name", "Qty", "Mfg Date", "Price"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.Integer.class, java.lang.Object.class, java.lang.Integer.class,
            java.lang.Object.class, java.lang.Float.class
        };

        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }
    });
    jScrollPane1.setViewportViewView(product_table);
    if (product_table.getColumnModel().getColumnCount() > 0) {
        product_table.getColumnModel().getColumn(0).setResizable(false);
        product_table.getColumnModel().getColumn(0).setPreferredWidth(5);
        product_table.getColumnModel().getColumn(1).setResizable(false);
        product_table.getColumnModel().getColumn(1).setPreferredWidth(100);
        product_table.getColumnModel().getColumn(2).setResizable(false);
        product_table.getColumnModel().getColumn(2).setPreferredWidth(5);
        product_table.getColumnModel().getColumn(3).setResizable(false);
        product_table.getColumnModel().getColumn(3).setPreferredWidth(120);
        product_table.getColumnModel().getColumn(4).setResizable(false);
        product_table.getColumnModel().getColumn(4).setPreferredWidth(10);
    }

    refreshBtn.setText("Refresh");
    refreshBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            refreshBtnActionPerformed(evt);
        }
    });

    editproductpageBtn.setText("Add/Edit Product");
    editproductpageBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            editproductpageBtnActionPerformed(evt);
        }
    });

    deleteproductpageBtn.setText("Delete Product");
    deleteproductpageBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            deleteproductpageBtnActionPerformed(evt);
        }
    });

```

```

jLabel2.setForeground(new java.awt.Color(255, 0, 51));
jLabel2.setText("*RED* - Indicates Products in Low Quantity");

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

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

                .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(backgroundpanelLayout.createSequentialGroup()
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
439, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(backgroundpanelLayout.createSequentialGroup()
                        .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(backgroundpanelLayout.createSequentialGroup()
                                .addGap(60, 60, 60)
                                .addComponent(deleteproductpageBtn)
                                .addGap(18, 18, 18)
                                .addComponent(refreshBtn)
                                .addGap(18, 18, 18)
                                .addComponent(editproductpageBtn)
                                .addGap(0, 0, Short.MAX_VALUE)))
                            .addContainerGap()))
                        .addGroup(backgroundpanelLayout.createSequentialGroup()
                            .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addGroup(backgroundpanelLayout.createSequentialGroup()
                                    .addGap(18, 18, 18)
                                    .addComponent(jLabel2)))
                            .addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addGroup(backgroundpanelLayout.createSequentialGroup()
                                    .addGap(72, 72, 72)

```

```

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
    );
    backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
    .addGap(17, 17, 17)
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(9, 9, 9)
    .addComponent(jLabel2)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 320,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
    .addComponent(refreshBtn)
    .addComponent(editproductpageBtn)
    .addComponent(deleteproductpageBtn))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

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

```

```

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

```



```

}

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

private void refreshBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    // create table
    DefaultTableModel tblModel = (DefaultTableModel)product_table.getModel();
    try {
        // establish connection to MySQL
        Class.forName("com.mysql.cj.jdbc.Driver");
        String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
        Connection con=DriverManager.getConnection(url,"root","Hari2006");
        statement = con.createStatement();
        String sql = "SELECT * FROM product_table;";
        Integer quantitylocation = -1;
        Integer finalquantity = 0;
        rset = statement.executeQuery(sql);
        while(tblModel.getRowCount()>0)
            tblModel.removeRow(0);
        while(rset.next()){
            // retrieve all information of the product.
            String id = rset.getString("productid");
            Integer ids = Integer.parseInt(id);
            String productname = rset.getString("productname");
            String qty = rset.getString("quantity");
            Integer quantity = Integer.parseInt(qty);
            String date = rset.getString("mfgdate");
            String price = rset.getString("price");
            Float prices = Float.parseFloat(price);
            Object tbData[] = {ids,productname,quantity,date,prices};

            tblModel.addRow(tbData);
            quantitylocation++;
        }

        statement.close();
        con.close();
        // tablecellrenderer used to change the color of the product's quantity which is below
        11 units.
        product_table.getColumnModel("Qty").setCellRenderer(

```

```

        new DefaultTableCellRenderer() {
            Color originalColor = null;
            @Override
            public Component getTableCellRendererComponent(JTable table, Object value,
boolean isSelected, boolean hasFocus, int row, int column) {
                DefaultTableCellRenderer renderer = (DefaultTableCellRenderer)
super.getTableCellRendererComponent(table, value, isSelected, hasFocus, row, column);
                if (originalColor == null) {
                    originalColor = getForeground();
                }
                int qy = ((Integer) value).intValue();
                if (qy < 11) {
                    renderer.setForeground(Color.RED);
                } else {
                    renderer.setForeground(originalColor); // Restores original color
                }
                return renderer;
            }
        });

    }
    catch (SQLException e) {
        // catch clause for MySQL and class error. logs errors as well
        JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection with database.");
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception ::"+e);
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
        JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
        StreamlinerLog.init();
        StreamlinerLog.logger.severe("Exception ::"+ex);
    }

}

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

private void changepasswordBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new changepassword(ro).setVisible(true);
}

```

```

        setVisible(false);
    }

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

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

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

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

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

```

```

    }
    } catch (ClassNotFoundException ex) {

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

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;
private javax.swing.JButton changepasswordBtn;
private javax.swing.JButton deleteproductpageBtn;
private javax.swing.JButton editproductpageBtn;
private javax.swing.JButton flowBtn;
private javax.swing.JButton homeBtn;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JButton logoutBtn;
private javax.swing.JButton productBtn;
private javax.swing.JTable product_table;
private javax.swing.JButton refreshBtn;
private javax.swing.JButton transactionBtn;
// End of variables declaration

```

```

}
Register:
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */

/**
 *
 *
 */
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JFrame;
import java.sql.Statement;

public class register extends javax.swing.JFrame {
    PreparedStatement pstatement,pstatement1;
    ResultSet rset,rset1;
    Statement statement;
    /**
     * Creates new form login
     */
    public register() {
        initComponents();
    }

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

```

```

jCheckBoxMenuItem1 = new javax.swing.JCheckBoxMenuItem();
jPanel1 = new javax.swing.JPanel();
jLabel3 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jPanel2 = new javax.swing.JPanel();
emailTxt = new javax.swing.JTextField();
passwordTxt = new javax.swing.JPasswordField();
jSeparator1 = new javax.swing.JSeparator();
jSeparator2 = new javax.swing.JSeparator();
jSeparator3 = new javax.swing.JSeparator();
jLabel4 = new javax.swing.JLabel();
registerBtn = new javax.swing.JButton();
resultLbl = new javax.swing.JLabel();
jLabel8 = new javax.swing.JLabel();
jLabel9 = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
jLabel11 = new javax.swing.JLabel();
reenterpasswordTxt = new javax.swing.JPasswordField();
jSeparator4 = new javax.swing.JSeparator();
jSeparator6 = new javax.swing.JSeparator();
jLabel13 = new javax.swing.JLabel();
nameTxt = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
loginBtn = new javax.swing.JButton();

jCheckBoxMenuItem1.setSelected(true);
jCheckBoxMenuItem1.setText("jCheckBoxMenuItem1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
setMaximumSize(new java.awt.Dimension(660, 401));
setMinimumSize(new java.awt.Dimension(660, 431));
setSize(new java.awt.Dimension(660, 401));

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

jLabel3.setBackground(new java.awt.Color(0, 0, 0));
jLabel3.setFont(new java.awt.Font("Shree Devanagari 714", 0, 36)); // NOI18N
jLabel3.setForeground(new java.awt.Color(0, 0, 0));
jLabel3.setText("Interface!");

jLabel5.setBackground(new java.awt.Color(0, 0, 0));
jLabel5.setFont(new java.awt.Font("Shree Devanagari 714", 0, 36)); // NOI18N
jLabel5.setForeground(new java.awt.Color(0, 0, 0));
jLabel5.setText("Welcome to the");

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

```

```

jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap(41, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
    .addComponent(jLabel5)
    .addGap(35, 35, 35))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
    .addComponent(jLabel3)
    .addGap(83, 83, 83))))
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
    .addContainerGap(128, Short.MAX_VALUE)
    .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 52,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 52,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(163, 163, 163))
);

jPanel2.setBackground(new java.awt.Color(153, 153, 153));
jPanel2.setForeground(new java.awt.Color(186, 79, 84));
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

emailTxt.setBackground(new java.awt.Color(153, 153, 153));
emailTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
emailTxt.setForeground(new java.awt.Color(204, 204, 204));
emailTxt.setToolTipText("");
emailTxt.setBorder(null);
emailTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        emailTxtActionPerformed(evt);
    }
});
jPanel2.add(emailTxt, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 260,
190, 20));

```

```

passwordTxt.setBackground(new java.awt.Color(153, 153, 153));
passwordTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
passwordTxt.setBorder(null);
passwordTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        passwordTxtActionPerformed(evt);
    }
});
jPanel2.add(passwordTxt, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 180,
190, 20));
jPanel2.add(jSeparator1, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 160, -
1, -1));

jSeparator2.setBackground(new java.awt.Color(255, 255, 255));
jSeparator2.setForeground(new java.awt.Color(255, 255, 255));
jPanel2.add(jSeparator2, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 200,
190, 20));

jSeparator3.setBackground(new java.awt.Color(255, 255, 255));
jSeparator3.setForeground(new java.awt.Color(255, 255, 255));
jPanel2.add(jSeparator3, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 160,
190, 20));

jLabel4.setBackground(new java.awt.Color(153, 153, 153));
jLabel4.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
jLabel4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(255,
255, 255)));
jPanel2.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 310, 90,
30));

registerBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledS
electedBackground"));
registerBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
registerBtn.setForeground(new java.awt.Color(0, 0, 0));
registerBtn.setText("Register");
registerBtn.setToolTipText("");
registerBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(255, 255, 255)));
registerBtn.setBorderPainted(false);
registerBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        registerBtnActionPerformed(evt);
    }
});
jPanel2.add(registerBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 310,
90, 30));

```



```

jPanel2.add(resultLbl, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 100, 290,
20));

jLabel8.setBackground(new java.awt.Color(0, 0, 0));
jLabel8.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel8.setText("Email:");
jPanel2.add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 260, -1,
20));

jLabel9.setBackground(new java.awt.Color(0, 0, 0));
jLabel9.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
jLabel9.setText("Register");
jPanel2.add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(130, 50, -1,
52));

jLabel10.setBackground(new java.awt.Color(0, 0, 0));
jLabel10.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel10.setText("Username:");
jPanel2.add(jLabel10, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 140, -1,
20));

jLabel11.setBackground(new java.awt.Color(0, 0, 0));
jLabel11.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel11.setText("Password:");
jPanel2.add(jLabel11, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 180, -1,
20));

reenterpasswordTxt.setBackground(new java.awt.Color(153, 153, 153));
reenterpasswordTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); //
NOI18N
reenterpasswordTxt.setBorder(null);
reenterpasswordTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        reenterpasswordTxtActionPerformed(evt);
    }
});
jPanel2.add(reenterpasswordTxt, new
org.netbeans.lib.awtextra.AbsoluteConstraints(110, 220, 190, 20));

jSeparator4.setBackground(new java.awt.Color(255, 255, 255));
jSeparator4.setForeground(new java.awt.Color(255, 255, 255));
jPanel2.add(jSeparator4, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 240,
190, 20));

jSeparator6.setBackground(new java.awt.Color(255, 255, 255));
jSeparator6.setForeground(new java.awt.Color(255, 255, 255));

```

```
jPanel2.add(jSeparator6, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 280, 190, 20));
```

```
jLabel13.setBackground(new java.awt.Color(0, 0, 0));
jLabel13.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel13.setText("Re-enter:");
jPanel2.add(jLabel13, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 220, -1, 20));
```

```
nameTxt.setBackground(new java.awt.Color(153, 153, 153));
nameTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
nameTxt.setForeground(new java.awt.Color(204, 204, 204));
nameTxt.setToolTipText("");
nameTxt.setBorder(null);
nameTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        nameTxtActionPerformed(evt);
    }
});
jPanel2.add(nameTxt, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 140, 190, 20));
```

```
jLabel6.setBackground(new java.awt.Color(0, 0, 0));
jLabel6.setFont(new java.awt.Font("Shree Devanagari 714", 0, 14)); // NOI18N
jLabel6.setText("Already a User?");
jPanel2.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(60, 360, -1, 20));
```

```
loginBtn.setBackground(javax.swing.UIManager.getDefaults().getColor("Button.disabledBackground"));
```

```
loginBtn.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
loginBtn.setForeground(new java.awt.Color(0, 0, 0));
loginBtn.setText("Login");
loginBtn.setToolTipText("");
loginBtn.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(255, 255, 255)));
loginBtn.setBorderPainted(false);
loginBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        loginBtnActionPerformed(evt);
    }
});
jPanel2.add(loginBtn, new org.netbeans.lib.awtextra.AbsoluteConstraints(170, 360, 60, -1));
```

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

```

getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, 0)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE, 327,
Short.MAX_VALUE))
        );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

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

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

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

private void registerBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String username = nameTxt.getText();
    String password = passwordTxt.getText();
    String repassword = reenterpasswordTxt.getText();
    String email = emailTxt.getText();
    // checks if password length is atleast 8 characters
    if(password.length() >= 8){

    try {
        // checks password and re-enter password is the same
        if(password.equals(repassword)){
            // establish connection to MySQL
            Class.forName("com.mysql.cj.jdbc.Driver");
            String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
            Connection con=DriverManager.getConnection(url,"root","Hari2006");
            String get= "SELECT * FROM admin_table WHERE Username='"+username+"'";
            pstatement = con.prepareStatement(get);

```

```

rset = pstatement.executeQuery();
if(rset.next()){
    resultLbl.setText("Username Taken");
}
// checks if email exists
else{
    String emailget= "SELECT * FROM admin_table WHERE Email='"+email+"'";
    pstatement1 = con.prepareStatement(emailget);
    rset1 = pstatement1.executeQuery();
    if(rset1.next()){
        resultLbl.setText("E-mail already in use");
    }
    // inserts the details and creates the account.
    else{
        String sql = "insert into admin_table (Username,Password,Email)
values('"+username+"','"+password+"','"+email+"')";
        statement = con.createStatement();
        statement.executeUpdate(sql);
        JOptionPane.showMessageDialog(null,"Successfully Registered.");
        StreamlinerLog.init();
        //logs info.
        StreamlinerLog.logger.info("New Account Registered with Username: "+username);
        new login().setVisible(true);
        setVisible(false);
        statement.close();
        con.close();}
    } } else {
        // Invalid login
        resultLbl.setText("Re-entered Password is different");
    }
}

} catch (SQLException e) {
    // catch clause for MySQL and class error. logs errors as well
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection with database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception ::"+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception ::"+ex);
}
}

```

```

        else{
            resultLbl.setText("Password has to be atleast 8 characters");
        }
    }

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

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

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

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */

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

            java.util.logging.Logger.getLogger(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);
    }
//</editor-fold>
```

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

```
// Variables declaration - do not modify
private javax.swing.JTextField emailTxt;
private javax.swing.JCheckBoxMenuItem jCheckBoxMenuItem1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JSeparator jSeparator2;
private javax.swing.JSeparator jSeparator3;
private javax.swing.JSeparator jSeparator4;
private javax.swing.JSeparator jSeparator6;
public static javax.swing.JButton loginBtn;
private javax.swing.JTextField nameTxt;
private javax.swing.JPasswordField passwordTxt;
private javax.swing.JPasswordField reenterpasswordTxt;
public static javax.swing.JButton registerBtn;
private javax.swing.JLabel resultLbl;
```

```

    // End of variables declaration
}

Transactionlist:
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
 */
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.RowFilter;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableRowSorter;
/**
 *
 *
 */
public class transactionlist extends javax.swing.JFrame {
Statement statement;
    ResultSet rset;

    /**
     * Creates new form homepage
     */
    private String ro;
    public transactionlist(String rno) {
        initComponents();
        ro=rno;
        transaction_table.setAutoCreateRowSorter(true);

    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.

```

```

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

    backgroundpanel = new javax.swing.JPanel();
    jPanel1 = new javax.swing.JPanel();
    productBtn = new javax.swing.JButton();
    homeBtn = new javax.swing.JButton();
    flowBtn = new javax.swing.JButton();
    transactionBtn = new javax.swing.JButton();
    changepasswordBtn = new javax.swing.JButton();
    logoutBtn = new javax.swing.JButton();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    transaction_table = new javax.swing.JTable();
    refreshBtn = new javax.swing.JButton();
    edittransactionBtn = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();
    searchTxt = new javax.swing.JTextField();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setLocationByPlatform(true);
    setMaximumSize(new java.awt.Dimension(672, 515));
    setMinimumSize(new java.awt.Dimension(672, 515));

    backgroundpanel.setBackground(new java.awt.Color(255, 255, 255));

    jPanel1.setBackground(new java.awt.Color(51, 51, 51));

    productBtn.setBackground(new java.awt.Color(61, 61, 61));
    productBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
    productBtn.setText("Product");
    productBtn.setBorder(null);
    productBtn.setBorderPainted(false);
    productBtn.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            productBtnActionPerformed(evt);
        }
    });

    homeBtn.setBackground(new java.awt.Color(67, 67, 67));
    homeBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
    homeBtn.setText("Home");
    homeBtn.setBorder(null);
    homeBtn.setBorderPainted(false);

```



```

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

flowBtn.setBackground(new java.awt.Color(55, 55, 55));
flowBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
flowBtn.setText("Inflow/Outflow");
flowBtn.setBorder(null);
flowBtn.setBorderPainted(false);
flowBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        flowBtnActionPerformed(evt);
    }
});

transactionBtn.setBackground(new java.awt.Color(53, 53, 53));
transactionBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
transactionBtn.setText("Transaction List");
transactionBtn.setBorder(null);
transactionBtn.setBorderPainted(false);
transactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        transactionBtnActionPerformed(evt);
    }
});

changepasswordBtn.setBackground(new java.awt.Color(52, 52, 52));
changepasswordBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); //
NOI18N
changepasswordBtn.setText("Change Password");
changepasswordBtn.setBorder(null);
changepasswordBtn.setBorderPainted(false);
changepasswordBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        changepasswordBtnActionPerformed(evt);
    }
});

logoutBtn.setBackground(new java.awt.Color(51, 51, 51));
logoutBtn.setFont(new java.awt.Font("Shree Devanagari 714", 1, 12)); // NOI18N
logoutBtn.setText("Log Out");
logoutBtn.setBorder(null);
logoutBtn.setBorderPainted(false);
logoutBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        logoutBtnActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(productBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(homeBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(flowBtn, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(transactionBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(changepasswordBtn, javax.swing.GroupLayout.DEFAULT_SIZE, 209,
Short.MAX_VALUE)
        .addComponent(logoutBtn, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(homeBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(productBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(flowBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(transactionBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(changepasswordBtn, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(logoutBtn, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
            )
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

```

```

jPanel2.setBackground(new java.awt.Color(153, 153, 153));

jLabel1.setFont(new java.awt.Font("Shree Devanagari 714", 0, 24)); // NOI18N
jLabel1.setText("Transaction List");

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(87, 87, 87)
            .addComponent(jLabel1)
            .addGap(89, Short.MAX_VALUE))
        );
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(31, Short.MAX_VALUE)
            .addComponent(jLabel1)
            .addGap(23, 23, 23))
        );

transaction_table.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null}
    },
    new String [] {
        "P ID", "Name", "Qty", "Date & Time", "Flow", "T ID"
    }
) {
    Class[] types = new Class [] {
        java.lang.Integer.class, java.lang.Object.class, java.lang.Integer.class,
        java.lang.Object.class, java.lang.Object.class, java.lang.Integer.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jScrollPane1.setViewportView(transaction_table);
if (transaction_table.getColumnModel().getColumnCount() > 0) {
    transaction_table.getColumnModel().getColumn(0).setResizable(false);
    transaction_table.getColumnModel().getColumn(0).setPreferredWidth(5);
}

```

```

transaction_table.getColumnModel().getColumn(1).setResizable(false);
transaction_table.getColumnModel().getColumn(1).setPreferredWidth(50);
transaction_table.getColumnModel().getColumn(2).setResizable(false);
transaction_table.getColumnModel().getColumn(2).setPreferredWidth(5);
transaction_table.getColumnModel().getColumn(3).setResizable(false);
transaction_table.getColumnModel().getColumn(3).setPreferredWidth(115);
transaction_table.getColumnModel().getColumn(4).setResizable(false);
transaction_table.getColumnModel().getColumn(4).setPreferredWidth(3);
transaction_table.getColumnModel().getColumn(5).setResizable(false);
transaction_table.getColumnModel().getColumn(5).setPreferredWidth(5);
}

refreshBtn.setText("Refresh");
refreshBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        refreshBtnActionPerformed(evt);
    }
});

edittransactionBtn.setText("Edit Transaction");
edittransactionBtn.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        edittransactionBtnActionPerformed(evt);
    }
});

jLabel2.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
jLabel2.setText("Search Product Name:");

searchTxt.setFont(new java.awt.Font("Shree Devanagari 714", 0, 13)); // NOI18N
searchTxt.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        searchTxtActionPerformed(evt);
    }
});

javax.swing.GroupLayout backgroundpanelLayout = new
javax.swing.GroupLayout(backgroundpanel);
backgroundpanel.setLayout(backgroundpanelLayout);
backgroundpanelLayout.setHorizontalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 439,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(12, Short.MAX_VALUE))
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(89, 89, 89)
        .addComponent(refreshBtn)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(edittransactionBtn)
        .addGap(62, 62, 62))
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(52, 52, 52)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.TRAILING)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
backgroundpanelLayout.createSequentialGroup())
        .addGap(18, 18, 18)
        .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(searchTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
169, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(0, 0, Short.MAX_VALUE)))
);
backgroundpanelLayout.setVerticalGroup(

backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(backgroundpanelLayout.createSequentialGroup())
        .addGap(31, 31, 31)
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(6, 6, 6)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
    .addComponent(jLabel2)

```

```

        .addComponent(searchTxt, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 320,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(backgroundpanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
        .addComponent(refreshBtn)
        .addComponent(edittransactionBtn))
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(backgroundpanel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(backgroundpanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

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

```

```

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

```

```

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

```

```

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

```

```

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

private void refreshBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    // creates table
    DefaultTableModel tblModel =(DefaultTableModel)transaction_table.getModel();
    try {
        // establish connection to MySQL
        Class.forName("com.mysql.cj.jdbc.Driver");
        String url="jdbc:mysql://localhost:3306/resourceinventorymanagement";
        Connection con=DriverManager.getConnection(url,"root","Hari2006");
        statement = con.createStatement();
        String sql = "SELECT * FROM transactions_table;";
        rset = statement.executeQuery(sql);
        while(tblModel.getRowCount(>0)
            tblModel.removeRow(0);
        while(rset.next()){
            String transactionid= rset.getString("transactionid");
            Integer tranid=Integer.parseInt(transactionid);
            String id = rset.getString("productid");
            Integer ids = Integer.parseInt(id);
            String productname = rset.getString("productname");
            String qty = rset.getString("quantity");
            Integer quantity = Integer.parseInt(qty);
            String date = rset.getString("transactiondate");
            String flowtype = rset.getString("transactiontype");

            // as the query goes through every row of the database, the data is sent to the table
            // to be displayed in their respective columns.
            Object tbData[] = {ids,productname,quantity,date,flowtype,tranid};

            tblModel.addRow(tbData);

        }
        // checks searchTxt field and filters out information which have the same characters as
        // the searchTxt in the table.
        if(searchTxt.getText()!=null){
            String query = searchTxt.getText();
            TableRowSorter<DefaultTableModel> tr = new
            TableRowSorter<DefaultTableModel>(tblModel);
            transaction_table.setRowSorter(tr);

```

```

        tr.setRowFilter(RowFilter.regexFilter(query));

    }
    statement.close();
    con.close();
}
catch (SQLException e) {
    // catch clause for MySQL and class error. logs errors as well
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to establish connection with database.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception ::"+e);
} catch (ClassNotFoundException ex) {
    Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(null,"Oops!, Something went wrong. Please Restart
the Application and try again. Error: Unable to utilise JDBC driver.");
    StreamlinerLog.init();
    StreamlinerLog.logger.severe("Exception ::"+ex);
}
}
private void edittransactionBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new edittransaction(ro).setVisible(true);
    setVisible(false);
}

private void logoutBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new login().setVisible(true);
    setVisible(false);
    StreamlinerLog.init();
    StreamlinerLog.logger.info("Admin ID: "+ro+" has logged out.");
}

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

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

/**
 * @param args the command line arguments

```



```

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

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

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JPanel backgroundpanel;

```

```
private javax.swing.JButton changepasswordBtn;  
private javax.swing.JButton edittransactionBtn;  
private javax.swing.JButton flowBtn;  
private javax.swing.JButton homeBtn;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JButton logoutBtn;  
private javax.swing.JButton productBtn;  
private javax.swing.JButton refreshBtn;  
private javax.swing.JTextField searchTxt;  
private javax.swing.JButton transactionBtn;  
private javax.swing.JTable transaction_table;  
// End of variables declaration  
}
```