

## PROGRAM CODE

```
public class Expt8 extends javax.swing.JFrame {

    int n=0;

    public Expt8() {
        initComponents();
    }

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

        jLabel1 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Segoe UI Semibold", 0, 18)); // NOI18N
        jLabel1.setText("Counter  App");

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

        jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 16)); // NOI18N
        jLabel2.setText("No of clicks : 0");
    }
}
```

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

layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(33, 33, 33)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 113,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton1))
            .addGap(37, Short.MAX_VALUE))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 125,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(28, 28, 28))
    );

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(20, 20, 20)
            .addComponent(jLabel1)
            .addGap(47, 47, 47)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 48,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(39, 39, 39)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(22, Short.MAX_VALUE))
    );
```

```

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

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        n++;
        jLabel2.setText("No of clicks : "+n);
    }

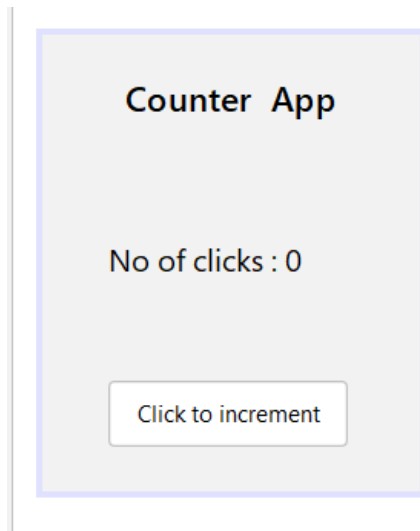
    public static void main(String args[]) {
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Expt8.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Expt8.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Expt8.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Expt8.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        }
    }

```

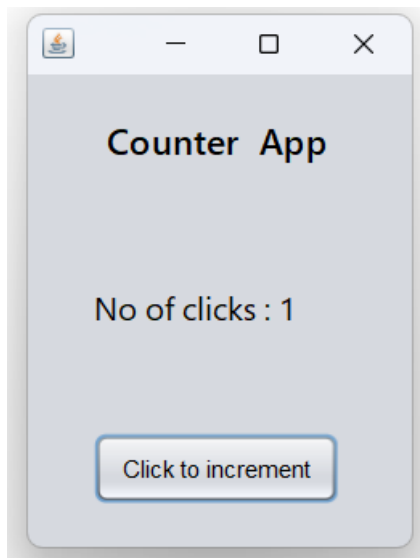
```
//</editor-fold>
```

```
java.awt.EventQueue.invokeLater(new Runnable() {  
    public void run() {  
        new Expt8().setVisible(true);  
    }  
});  
}  
  
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
}
```

## SAMPLE DESIGN



## OUTPUT



## Program Code

### HTML Form (index.html)

#### HTML

```
<!DOCTYPE html>

<html>

<head>

    <title>Personalized Greeting</title>

</head>

<body>

    <h1>Enter your name</h1>

    <form action="/greet" method="GET">

        <label for="name">Name:</label>

        <input type="text" id="name" name="name" required>

        <input type="submit" value="Submit">

    </form>

</body>

</html>
```

### Servlet (GreetingServlet.java)

#### Java

```
import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/greet")

public class GreetingServlet extends HttpServlet {
```

```

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

    String name = request.getParameter("name");

    response.setContentType("text/html");

    PrintWriter out = response.getWriter();

    out.println("<html><body>");

    if (name != null && !name.trim().isEmpty()) {

        out.println("<h1>Hello, " + name + "!</h1>");

    } else {

        out.println("<h1>Hello, Guest!</h1>");

    }

    out.println("</body></html>");

}
}

```

## **web.xml Configuration**

### **XML**

```

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd" version="3.1">

    <servlet>

        <servlet-name>GreetingServlet</servlet-name>

        <servlet-class>GreetingServlet</servlet-class>

    </servlet>

    <servlet-mapping>

        <servlet-name>GreetingServlet</servlet-name>

        <url-pattern>/greet</url-pattern>

    </servlet-mapping>

</web-app>

```

**Sample Input:**

Name: John

**Sample Output:**

Hello, John!



## Program Code :

```
/*
 * 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
 */
package signup;

import java.sql.*;

import java.sql.DriverManager;

import java.sql.Connection;

/**
 *
 * @author 91882
 */
public class sign_up extends javax.swing.JFrame {

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

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

```
jLabel1 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jTextField1 = new javax.swing.JTextField();
jTextField2 = new javax.swing.JTextField();
jTextField3 = new javax.swing.JTextField();
jButton1 = new javax.swing.JButton();
jTextField5 = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("SIGN_UP");

jLabel2.setText("user_id");

jLabel3.setText("user_name");

jLabel4.setText("ser_age");

jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});

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

```
}  
});
```

```
jTextField5.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jTextField5ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()  
            .addGap(68, 68, Short.MAX_VALUE)  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
                .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
                .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 77,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGap(74, 74, 74)  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
                .addComponent(jTextField1)  
                .addComponent(jTextField2)  
                .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, 117,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
            .addGap(64, 64, 64))  
        .addGroup(layout.createSequentialGroup()  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                    .addGroup(layout.createSequentialGroup()  
                        .addGap(11, 11, 11)  
                        .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE,  
117, javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addGap(11, 11, 11)  
                        .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE,  
117, javax.swing.GroupLayout.PREFERRED_SIZE)  
                    )  
                    .addGroup(layout.createSequentialGroup()  
                        .addGap(11, 11, 11)  
                        .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE,  
117, javax.swing.GroupLayout.PREFERRED_SIZE)  
                        .addGap(11, 11, 11)  
                        .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,  
117, javax.swing.GroupLayout.PREFERRED_SIZE)  
                    )  
                )  
            )  
        )  
    );
```

```
.addGap(148, 148, 148)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup())

.addGap(154, 154, 154)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createSequentialGroup())

.addGap(86, 86, 86)

.addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE, 208,
javax.swing.GroupLayout.PREFERRED_SIZE)))

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

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup())

.addGap(26, 26, 26)

.addComponent(jLabel1)

.addGap(29, 29, 29)

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

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

.addComponent(jLabel2))

.addGap(18, 18, 18)

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

.addComponent(jLabel3)

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

.addGap(18, 18, 18)

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

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

.addComponent(jLabel4))

.addGap(41, 41, 41)
```

```

        .addComponent(jButton1)

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

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

        .addContainerGap(29, Short.MAX_VALUE))

    );

```

```

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

```

```

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String id=jTextField1.getText().toString();
    String name=jTextField2.getText().toString();
    String age=jTextField3.getText().toString();
    String url = "jdbc:mysql://localhost:3306/sign_up";
    String username = "root";
    String query="insert into sign_up_details values(?,?,?)";
    String query1="delete from sign_up_details where use_id=?";
    String password="";
    try{
        Connection con=DriverManager.getConnection(url,username,password);
        PreparedStatement ps=con.prepareStatement(query);
        ps.setString(1,id );
        ps.setString(2,name);
        ps.setInt(3,Integer.valueOf(age) );
        int m=ps.executeUpdate();
    }
}

```

```

        PreparedStatement ps1=con.prepareStatement(query1);

        ps1.setString(1,"deepa12345");

        ps1.executeUpdate();

        if(m==1){

            jTextField5.setText("Record inserted successfully");

        }

//    else{

//        System.out.println("Record not inserted");

//    }

        }catch(Exception e){

        }

    }

private void jTextField5ActionPerformed(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(sign_up.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

    java.util.logging.Logger.getLogger(sign_up.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 sign_up().setVisible(true);

    }

});

}

```

```

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

```

```
private javax.swing.JTextField jTextField1;  
private javax.swing.JTextField jTextField2;  
private javax.swing.JTextField jTextField3;  
private javax.swing.JTextField jTextField5;  
// End of variables declaration  
}
```



## Design :

The screenshot shows the NetBeans IDE with several tabs open: ...va, Registrationform.java, add.java, convertor.java, Signup.java, and sign\_up.java. The 'Design' tab is selected, displaying a visual representation of the 'SIGN\_UP' form. The form contains three input fields labeled 'user\_Id', 'user\_name', and 'user\_age'. Below these fields is a 'sign\_in' button and a large empty rectangular area at the bottom. A tooltip message is visible at the top of the design view: 'The Preview Design button (in the toolbar) enables you to test the design of the form.'

## Design Output :

The screenshot shows the running application window titled 'SIGN\_UP'. The form is displayed with the following data entered in the input fields: 'user\_Id' contains 'ram879', 'user\_name' contains 'Ram', and 'user\_age' contains '18'. The 'sign\_in' button is highlighted with a blue border. Below the button, a message box displays the text 'Record inserted successfully'.

## Output :

The screenshot displays the phpMyAdmin web interface. On the left, the database navigation tree shows the 'sign\_up' database selected, with the 'sign\_up\_details' table highlighted. The main panel shows the 'Browse' view of the 'sign\_up\_details' table. The table has three columns: 'use\_id', 'use\_name', and 'user\_age'. It contains 10 rows of data. The interface includes navigation tabs (Browse, Structure, SQL), a search bar, and options to show all rows or a specific number (25).

Server: 127.0.0.1 » Database: sign\_up »

**Browse** | Structure | SQL | Search

☐ Show all | Number of rows: 25 ▾

Extra options

use_id	use_name	user_age
deepika23456	deepika	18
divya123	Divya	19
Priya234	Priya	20
arun190	arun	17
Rohit567	Rohit	20
nivethika365	Nivethika	17
Varun783	Varun	19
Sivakumar930	Sivakumar	21
shivani569	Shivani	18

☐ Show all | Number of rows: 25 ▾

☒ Console