Experiment - 10

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Subject Name: Programming in Java
Subject Code: 21CSH-244

1. **Experiment Title/Problem Statement:** Write a program to create a student registration form with the help of swings in java and do the database connectivity.

2. **Description**: The Swing package is used for the Swing components. All Swing components are defined within this package. The AWT package provides an event handling mechanism, in other words it deals with events like "Button Click". The SQL package creates the JDBC connection.

3. **Steps:**

START

Step 1 → Editor (Source code)
Step 2 → Java Compiler [javac.xxx.java] (Java Bytecode)
Step 3 → Java xxx
Step 4 → **Output**

STOP

4. **Code:**

MyServer.java | MyClient.java | HelloForm.java | Hello.htm | Registration.java

Registration.java

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class Registration extends JFrame implements ActionListener
{
    JLabel l1, l2, l3, l4, l5, l6, l7, l8;
    JTextField tf1, tf2, tf5, tf6, tf7;
    JButton btn1, btn2;
    JPasswordField p1, p2;
    Registration()
    {
        setVisible(true);
        setSize(700, 700);
        setLayout(null);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setTitle("Registration Form in Java");
        l1 = new JLabel("Registration Form in Windows Form:");
        l1.setForeground(Color.blue);
        l1.setFont(new Font("Serif", Font.BOLD, 20));
        l2 = new JLabel("Name:");
        l3 = new JLabel("Email-ID:");
        l4 = new JLabel("Create Passowrd:");
        l5 = new JLabel("Confirm Password:");
        l6 = new JLabel("Country:");
        l7 = new JLabel("State:");
        l8 = new JLabel("Phone No:");
        tf1 = new JTextField();
        tf2 = new JTextField();
        p1 = new JPasswordField();
        p2 = new JPasswordField();
        tf5 = new JTextField();
        tf6 = new JTextField();
        tf7 = new JTextField();
        btn1 = new JButton("Submit");
        btn2 = new JButton("Clear");
        btn1.addActionListener(this);
        btn2.addActionListener(this);
        l1.setBounds(100, 30, 400, 30);
        l2.setBounds(80, 70, 200, 30);
        l3.setBounds(80, 110, 200, 30);
        l4.setBounds(80, 150, 200, 30);
        l5.setBounds(80, 190, 200, 30);
        l6.setBounds(80, 230, 200, 30);
        l7.setBounds(80, 270, 200, 30);
        l8.setBounds(80, 310, 200, 30);
        tf1.setBounds(300, 70, 200, 30);
        tf2.setBounds(300, 110, 200, 30);
        p1.setBounds(300, 150, 200, 30);
        p2.setBounds(300, 190, 200, 30);
        tf5.setBounds(300, 230, 200, 30);
        tf6.setBounds(300, 270, 200, 30);
        tf7.setBounds(300, 310, 200, 30);
        btn1.setBounds(50, 350, 100, 30);
        btn2.setBounds(170, 350, 100, 30);
```

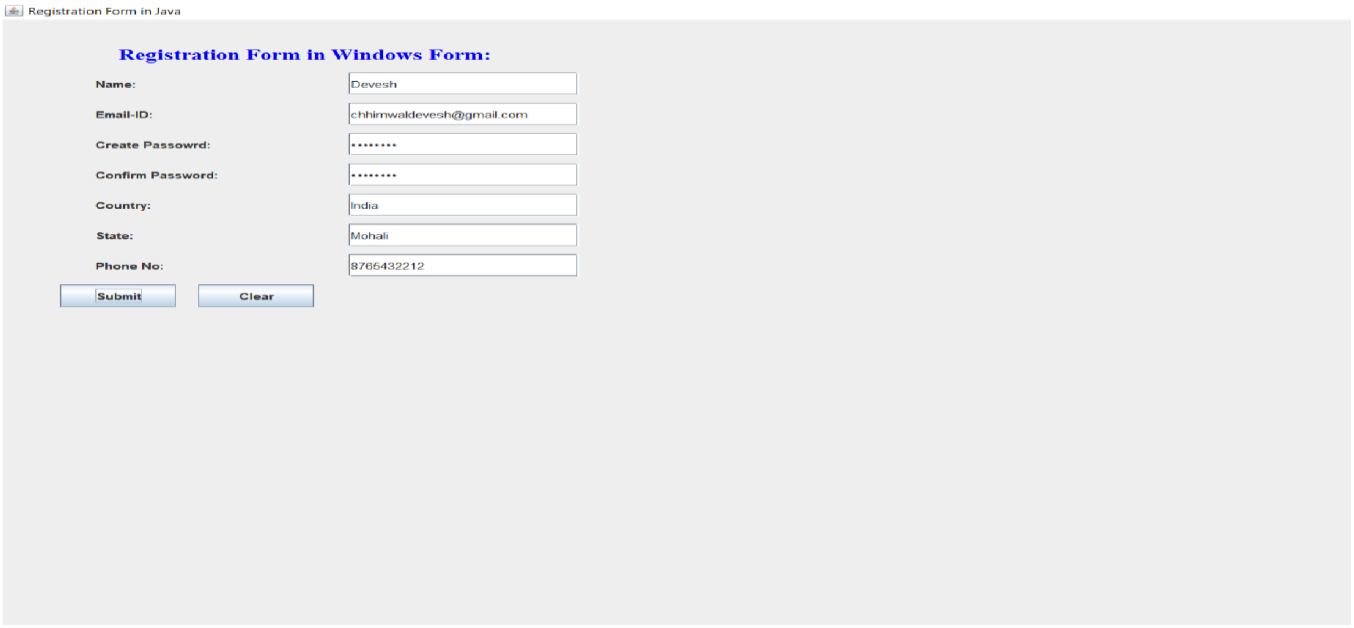
Registration.java

```
            btn1.setBounds(50, 350, 100, 30);
            btn2.setBounds(170, 350, 100, 30);
            add(l1);
            add(l2);
            add(tf1);
            add(l3);
            add(tf2);
            add(l4);
            add(p1);
            add(l5);
            add(p2);
            add(l6);
            add(tf5);
            add(l7);
            add(tf6);
            add(l8);
            add(tf7);
            add(btn1);
            add(btn2);
        }
        public void actionPerformed(ActionEvent e)
        {
            if (e.getSource() == btn1)
            {
                int x = 0;
                String s1 = tf1.getText();
                String s2 = tf2.getText();
                char[] s3 = p1.getPassword();
                char[] s4 = p2.getPassword();
                String s8 = new String(s3);
                String s9 = new String(s4);
                String s5 = tf5.getText();
                String s6 = tf6.getText();
                String s7 = tf7.getText();
                if (s8.equals(s9))
                {
                    try
                    {
                        Class.forName("oracle.jdbc.driver.OracleDriver");
                        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@mcndesktop07:1521:xe", "sandeep", "welcome");
                        PreparedStatement ps = con.prepareStatement("insert into reg values(?,?,?,?,?,?)");
                        ps.setString(1, s1);
                        ps.setString(2, s2);
                        ps.setString(3, s8);
                        ps.setString(4, s5);
                        ps.setString(5, s6);
                        ps.setString(6, s7);
                        ResultSet rs = ps.executeQuery();
                        x++;
                        if (x > 0)
                        {
                            JOptionPane.showMessageDialog(btn1, "Data Saved Successfully");
                        }
                    }
                    catch (Exception ex)
                    {
                        System.out.println(ex);
                    }
                }
                else
                {
                    JOptionPane.showMessageDialog(btn1, "Password Does Not Match");
```

Registration.java

```
114                 {
115                     JOptionPane.showMessageDialog(btn1, "Password Does Not Match");
116                 }
117             }
118 
119             else
120             {
121                 tf1.setText("");
122                 tf2.setText("");
123                 p1.setText("");
124                 p2.setText("");
125                 tf5.setText("");
126                 tf6.setText("");
127                 tf7.setText("");
128             }
129         }
130         public static void main(String args[])
131         {
132             new Registration();
133         }
134     }
```

5. Result/Output/Writing Summary:



6. Learning outcomes (What I have learnt):

a. Learn about Swings in java.

b. Learned to make a registration form using swing.

c. Learn about arrays and exception handling in java.

d. Learned how to make a simple form without HTML.

7. Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			