

**Ex 4: Create GUI using Swing which will interact with Database and insert the content in the database.**

**Step 1:**

**Form Design:**

Write the below (No need to draw from in Ex 4):

**Refer to Ex 3**

**Step 2:**

**To download jCalendar:** <https://toedter.com/jcalendar/>

Steps:

> Download RAR

> Extract RAR

> In netbeans tools-> palette -> swing/awt components -> Add JAR -> locate the jcalendar folder -> select lib -> select all JAR files -> next -> select all components -> next -> select swing Controls -> finish.

**Step 3:**

**Table Design:**

Create table tblreg (Enroll int, Name varchar(25), Email varchar(25), DOB varchar(25), Gender varchar(25), Division varchar(25), Interest varchar(25), Address varchar(25) );

Insert into tblreg values(101, Aarav, [aarav@gmail.com](mailto:aarav@gmail.com), 19-Jan-2002, Male, TC5, AJT, Rajkot);

Select \* from tblreg;

**Step 4:**

**Source code:**

```
import java.sql.*;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection cn =
    DriverManager.getConnection("jdbc:mysql://localhost:3306/4tc","root","");
    System.out.println("Connected");
```

```
PreparedStatement ps = cn.prepareStatement("INSERT INTO regtbl(`Enroll`,  
`Name`, `Email`, `DOB`, `Gender`, `Division`, `Interest`, `Address`)  
VALUES(?,?,?,?,?,?,?)");
```

```
ps.setInt(1, Integer.parseInt(txtEnroll.getText()));
```

```
ps.setString(2, txtName.getText());
```

```
ps.setString(3, txtEmail.getText());
```

```
ps.setString(4,  
((JTextField)jDateChooser1.getDateEditor().getUiComponent()).getText());
```

```
if(rMale.isSelected())
```

```
ps.setString(5, rMale.getText());
```

```
else
```

```
ps.setString(5, rFemale.getText());
```

```
String value = comboDivision.getSelectedItem().toString();
```

```
ps.setString(6, value);
```

```
String fav_sub = "";
```

```
if(cbAJT.isSelected())
```

```
{
```

```
fav_sub+=cbAJT.getText()+" , ";
```

```
}
```

```
if(cbJava.isSelected())
```

```
{
```

```
fav_sub+=cbJava.getText()+" , ";
```

```
}
```

```
ps.setString(7, fav_sub);
```

```
ps.setString(8,txtAddress.getText());
```

```
// cleardata();
```

```
int i = ps.executeUpdate();
JOptionPane.showMessageDialog(btnSave, i + " Record Inserted Successfully");
cleardata();
dispose();
setVisible(true);
ps.close();
cn.close();
}
catch(Exception e) {
    e.printStackTrace();
}}
```

Output:

The image displays a Java Swing application with two windows. The primary window, titled "Form Registration", contains a registration form with the following fields and values:

- Enroll:** 123456
- Name:** Aarav
- Email:** aarav@gmail.com
- DOB:** 3-Feb-2023 (with a calendar icon)
- Gender:** Male (selected with a radio button, Female is unselected)
- Division:** TC5 (selected in a dropdown menu)
- Interest:** AJT (checked), Core Java (checked)
- Address:** Rajkot (in a text area)

At the bottom of the "Form Registration" window are three buttons: "Save", "Clear", and "Close".

A secondary "Message" dialog box is overlaid on the right side of the main window. It features an information icon (a lowercase 'i' in a blue circle) and the text "1 Record Inserted Successfully". An "OK" button is located at the bottom right of the message box.