

## JAVA\_assignment 25

### JDBC

Name : Divya Chaudhari

Roll no. 116

PRN 0120190122

### CODE:

```
package studentform;

import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import com.mysql.jdbc.PreparedStatement;

import javax.swing.JLabel;
import javax.swing.JOptionPane;

import java.awt.Font;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.awt.event.ActionEvent;

public class register_in_db extends JFrame {

    private JPanel contentPane;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    private JTextField textField_3;
    private JTextField textField_4;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    register_in_db frame = new register_in_db();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
}
```

```

/**
 * Create the frame.
 */

Connection con=null;
public register_in_db() {
    con=db.dbconnect();
    getContentPane().setLayout(null);
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(100, 100, 450, 591);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    JLabel lblNewLabel = new JLabel("Registration form");
    lblNewLabel.setFont(new Font("Microsoft Himalaya", Font.PLAIN, 30));
    lblNewLabel.setBounds(160, 10, 166, 26);
    contentPane.add(lblNewLabel);

    JLabel lblNewLabel_1 = new JLabel("Name of student");
    lblNewLabel_1.setFont(new Font("Tahoma", Font.PLAIN, 18));
    lblNewLabel_1.setBounds(34, 68, 152, 26);
    contentPane.add(lblNewLabel_1);

    JLabel lblT = new JLabel("Roll no.");
    lblT.setFont(new Font("Tahoma", Font.PLAIN, 18));
    lblT.setBounds(34, 104, 152, 26);
    contentPane.add(lblT);

    JLabel lblCgpa = new JLabel("cgpa");
    lblCgpa.setFont(new Font("Tahoma", Font.PLAIN, 18));
    lblCgpa.setBounds(34, 140, 152, 26);
    contentPane.add(lblCgpa);

    JLabel lblGrade = new JLabel("grade");
    lblGrade.setFont(new Font("Tahoma", Font.PLAIN, 18));
    lblGrade.setBounds(34, 180, 152, 26);
    contentPane.add(lblGrade);

    JLabel lblAge = new JLabel("Age");
    lblAge.setFont(new Font("Tahoma", Font.PLAIN, 18));
    lblAge.setBounds(34, 216, 152, 26);
    contentPane.add(lblAge);

    textField = new JTextField();
    textField.setBounds(247, 75, 96, 19);
    contentPane.add(textField);
    textField.setColumns(10);

    textField_1 = new JTextField();
    textField_1.setColumns(10);
    textField_1.setBounds(247, 111, 96, 19);
    contentPane.add(textField_1);

    textField_2 = new JTextField();
    textField_2.setColumns(10);
    textField_2.setBounds(247, 147, 96, 19);
    contentPane.add(textField_2);

```

```

textField_3 = new JTextField();
textField_3.setColumns(10);
textField_3.setBounds(247, 187, 96, 19);
contentPane.add(textField_3);

textField_4 = new JTextField();
textField_4.setColumns(10);
textField_4.setBounds(247, 223, 96, 19);
contentPane.add(textField_4);

JButton btnNewButton = new JButton("Submit");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        try {

            String name=textField.getText();
            String rollno=textField_1.getText();
            String cgpa=textField_2.getText();
            String grade=textField_3.getText();
            String age=textField_4.getText();

            PreparedStatement pst=(PreparedStatement)
con.prepareStatement("insert into student(studentname,rollno,cgpa,grade,age)
values(?,?,?,?,?,?)");

            pst.setString(1, name);
            pst.setString(2, rollno);
            pst.setString(3, cgpa);
            pst.setString(4, grade);
            pst.setString(5, age);
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null,"Data is added
successfully.!");

            textField.setText("");
            textField_1.setText("");
            textField_2.setText("");
            textField_3.setText("");
            textField_4.setText("");

        }
        catch(Exception e1)
        {
            e1.printStackTrace();
        }

    }
});
btnNewButton.setFont(new Font("Tahoma", Font.PLAIN, 23));
btnNewButton.setBounds(213, 350, 113, 44);
contentPane.add(btnNewButton);
}
}

```

CODE FOR CONNECTION:

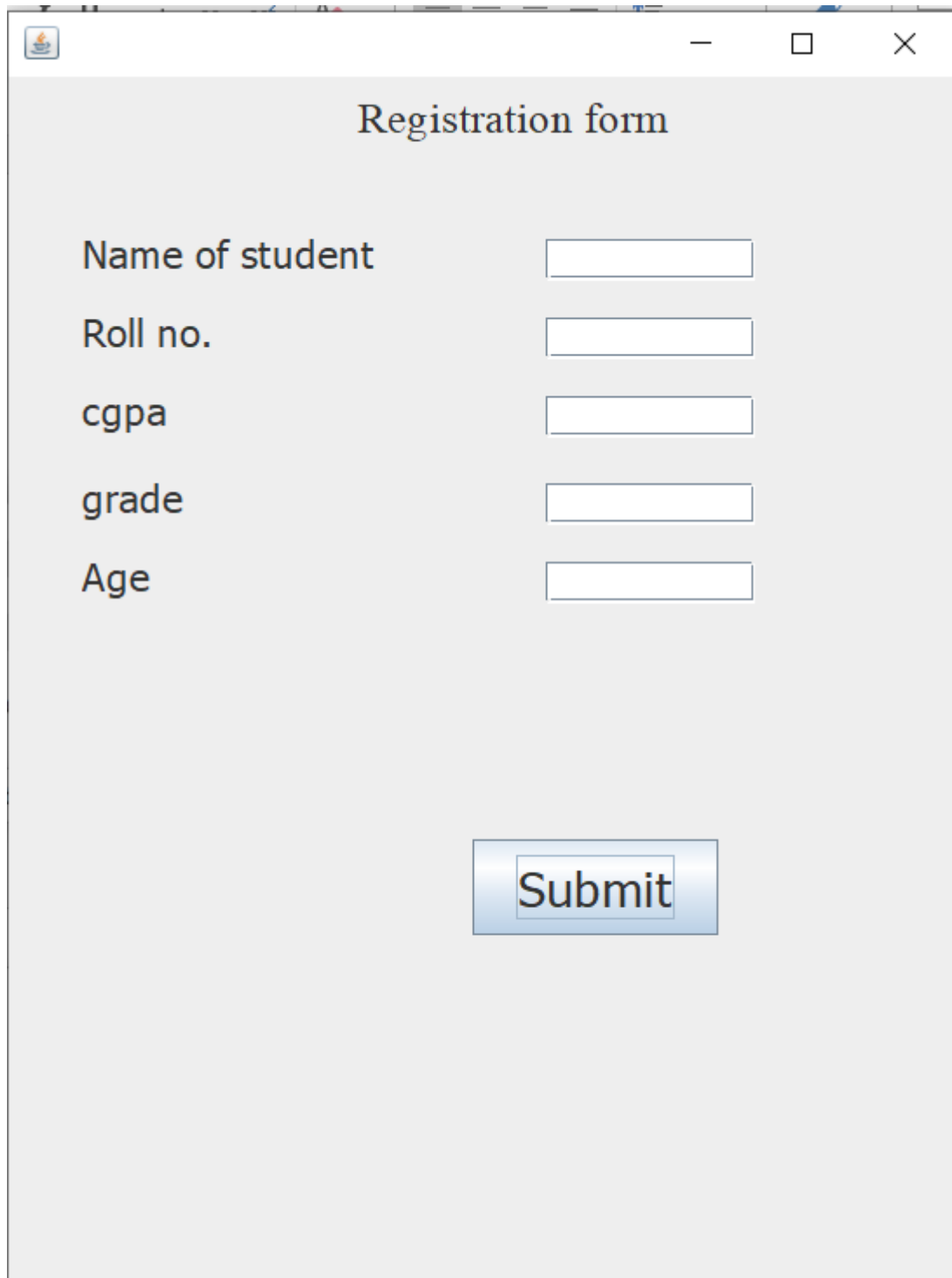
```
package studentform;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

import com.mysql.jdbc.ResultSetMetaData;

import java.sql.DriverManager;
import java.sql.Connection;
import java.sql.ResultSet;
import java.util.Vector;

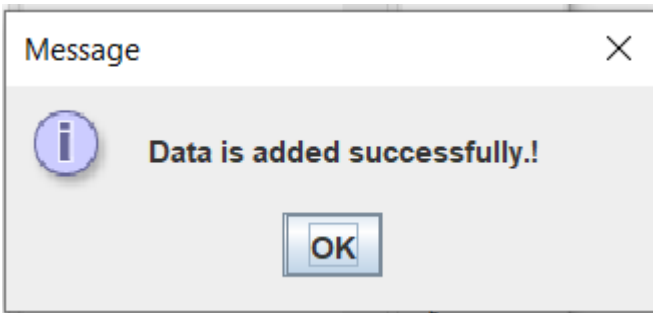
public class db {
    Connection con=null;
    java.sql.PreparedStatement pst;
    public static Connection dbconnect()
    {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection conn=(Connection)
DriverManager.getConnection("jdbc:mysql://localhost:3306/studentregistration","root","");
            return conn;
        }
        catch(Exception e2)
        {
            System.out.println(e2);
            return null;
        }
    }
}
```

OUTPUT:



The image shows a Java Swing window titled "Registration form". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains five labels on the left and five corresponding text input fields on the right. The labels are "Name of student", "Roll no.", "cgpa", "grade", and "Age". Below these fields is a blue "Submit" button with a gradient and a bevel effect.

Name of student	<input type="text"/>
Roll no.	<input type="text"/>
cgpa	<input type="text"/>
grade	<input type="text"/>
Age	<input type="text"/>



Number of rows: 25 First rows: Search this table

+ Options

studentname	rollno	cgpa	grade	age
Divya	116	9.8	a	20
Vinay	120	9.2	B	21
Nishant	523	8.9	A	19
Namrata	65	8	C	125



Show all

Number of rows:

25



Filter rows:

Search this table

#### Query results operations



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Display chart



Create view