**. Develop a form to collect student details such as First name, Middle Name ,Last name**

**Father name ,Mother name ,Mobile No,Date of Birth, gender,Address , Program Name**

**Division,Roll No. Provide a submit button to display with database connectivity**. import javax.swing.\*; import java.awt.\*;

import java.awt.event.\*; import java.sql.\*;

public class StudentForm extends JFrame implements ActionListener {

private Container container; private JLabel titleLabel, firstNameLabel, middleNameLabel, lastNameLabel,

fatherNameLabel, motherNameLabel, mobileNoLabel, dobLabel, genderLabel, addressLabel, programLabel, divisionLabel, rollNoLabel;

private JTextField firstNameText, middleNameText, lastNameText, fatherNameText, motherNameText, mobileNoText, dobText, addressText, programText, divisionText, rollNoText;

private JRadioButton maleRadioButton, femaleRadioButton;

private ButtonGroup genderGroup;

private JButton submitButton;

public StudentForm() {

setTitle("Student Form");

setBounds(300, 90, 900, 600);

setDefaultCloseOperation(EXIT\_ON\_CLOSE);

setResizable(false);

container = getContentPane();

container.setLayout(null);

titleLabel = new JLabel("Student Registration Form");

titleLabel.setFont(new Font("Arial", Font.PLAIN, 30));

titleLabel.setSize(300, 30);

titleLabel.setLocation(300, 30);

container.add(titleLabel);

submitButton = new JButton("Submit");

submitButton.setFont(new Font("Arial", Font.PLAIN, 15)); submitButton.setSize(100, 20);

submitButton.setLocation(150, 450);

submitButton.addActionListener(this);

container.add(submitButton);

setVisible(true);

}

public void actionPerformed(ActionEvent e) {

if (e.getSource() == submitButton) {

String firstName = firstNameText.getText();

String middleName = middleNameText.getText();

String lastName = lastNameText.getText();

String fatherName = fatherNameText.getText();

String motherName = motherNameText.getText();

String mobileNo = mobileNoText.getText();

String dob = dobText.getText();

String gender = maleRadioButton.isSelected() ? "Male" : "Female";

String address = addressText.getText();

String program = programText.getText();

String division = divisionText.getText();

String rollNo = rollNoText.getText();

// Database connectivity try {

Connection connection =

DriverManager.getConnection("jdbc:mysql://localhost:3306/studentdb", "root", "password");

String query = "INSERT INTO students (firstName, middleName, lastName,

fatherName, motherName, mobileNo, dob, gender, address, program, division, rollNo) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";

PreparedStatement preparedStatement = connection.prepareStatement(query);

preparedStatement.setString(1, firstName);

preparedStatement.setString(2, middleName);

preparedStatement.setString(3, lastName);

preparedStatement.setString(4, fatherName);

preparedStatement.setString(5, motherName);

preparedStatement.setString(6, mobileNo);

preparedStatement.setString(7, dob);

preparedStatement.setString(8, gender);

preparedStatement.setString(9, address);

preparedStatement.setString(10, program);

preparedStatement.setString(11, division);

preparedStatement.setString(12, rollNo);

preparedStatement.executeUpdate();

JOptionPane.showMessageDialog(this, "Data Inserted Successfully");

connection.close();

}

catch (SQLException sqlException) { sqlException.printStackTrace();

}

}

}

public static void main(String[] args) {

new StudentForm();

}

}