

Object Oriented Programming 1

Fall 2015-16

Lab Manual: 08

Lab Task:

1. Lab Review, and start with unfinished classes from Lab_06
2. Develop Java classes

Note: Student **must** follow the name of class, member variables, and functions.
And students should use fully qualified names for these, as well **camel notions**.
And the syntax alignment has to be as it should be.

1. Lab_07 Classes – Review:

2. Develop Java Classes:

Import Classes JContentpane JButton JLabel JTextField JFrame JOptionPane From javax.swing package Ex: javax.swing.JComponent		
Public Class Calculator	JFrame calculatorFrame JLabel lblNumber1, lblNumber2 JTextField txtNumber1, txtNumber2 JButton btnPlus, btnMinus, btnMul, btnDiv	Declare private
	Constructors (Parameterized. Empty) void initUI(String windowTitle)	Declare public
For Component size and position : <i>setBounds(x, y, width, height)</i> Window : <i>calculatorFrame.setBounds(100, 100, 250, 155); // set other components (JLabel, JTextfield, JButton)</i> Write a will show a java window following the above characteristics and Given Form on Figure 1.		

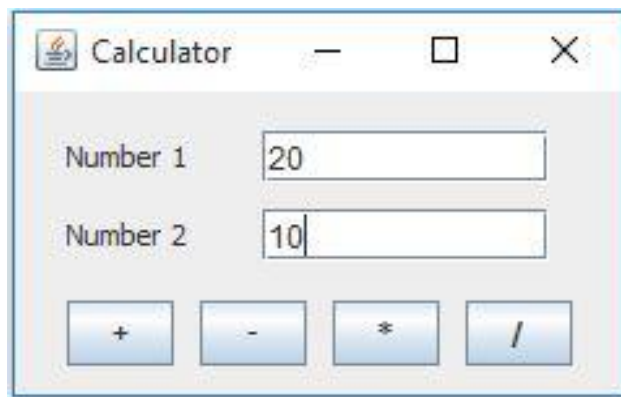


Fig 1: Simple Calculator

The screenshot shows a Java window titled "ContactEditor" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains a form with the following fields and controls:

- Name:** A text input field.
- Person ID:** A text input field.
- Age:** A text input field.
- Mobile Operator:** A dropdown menu currently showing "Grameen".
- Mobile Number:** A text input field.
- Gender:** A text input field.
- Save:** A button located at the bottom right of the form area.

Fig 2: **ContactEditor**

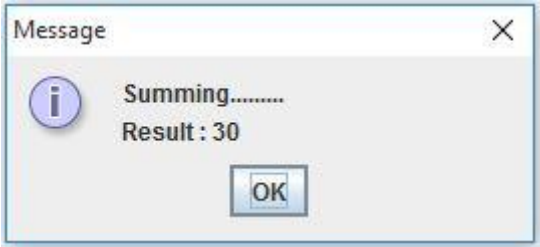
Write a program will show a java window following the above characteristics and Given Form on Figure 2.

Design A registration form for STUDENT

The screenshot shows a Java window titled "Student Profile" with a standard Windows-style title bar. The window contains a complex registration form with the following sections and fields:

- Personal Details:**
 - Last Name: Text input field
 - Middle Name: Text input field
 - First Name: Text input field
 - Date of Birth: Text input field
 - Place of Birth: Text input field
 - Address: Large text area
 - Grade: Text input field
 - Father's Name: Text input field
 - Occupation: Text input field
 - Address: Text input field
 - Mother's Name: Text input field
 - Occupation: Text input field
 - Address: Text input field
- Gender and Student Type:**
 - Gender: Text input field
 - Age: Text input field
 - Student Type: Text input field
- In case of emergency:**
 - Name: Text input field
 - Address: Text input field
 - Contact Number: Text input field
 - Relationship: Text input field
- Requirements:**
 - ☐ Form 137
 - ☐ Birth Certificate
 - ☐ Report Card
 - ☐ Certificate of Good Moral (transferees)
- Buttons:**
 - Save, Search, Update (top row)
 - Close, Remove (bottom row)

Develop the form on same way you have done for the **ContactEditor**.

Extended Part		
<pre>import java.awt.event.ActionListener; import java.awt.event.ActionEvent;</pre>		
Public Class Calculator includes Private Class ButtonClickListener Implements ActionListener interface	void actionPerformed(ActionEvent e) Hints: perform tasks for each button If plus presses, two numbers will be summed up and show on a message box. 	Declare public