Lab 9

CODE:

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

class SwingDemo{

    SwingDemo(){

        // create jframe container

        JFrame jfrm = new JFrame(&quot;Divider App&quot;);

        jfrm.setSize(275, 150);

        jfrm.setLayout(new FlowLayout());

        // to terminate on close

        jfrm.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

        // text label

        JLabel jlab = new JLabel(&quot;Enter the divider and divident:&quot;);

        // add text field for both numbers

        JTextField ajtf = new JTextField(8);

        JTextField bjtf = new JTextField(8);

        // calc button

        JButton button = new JButton(&quot;Calculate&quot;);

        // labels

        JLabel err = new JLabel();

        JLabel alab = new JLabel();

        JLabel blab = new JLabel();

        JLabel anslab = new JLabel();

        // add in order :)

        jfrm.add(err);  // to display error bois

        jfrm.add(jlab);

        jfrm.add(ajtf);

        jfrm.add(bjtf);

        jfrm.add(button);

        jfrm.add(alab);

        jfrm.add(blab);

        jfrm.add(anslab);

        ActionListener l = new ActionListener() {

            public void actionPerformed(ActionEvent evt) {

                System.out.println(&quot;Action event from a text field&quot;);

            }

        };

        ajtf.addActionListener(l);

        bjtf.addActionListener(l);

        button.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent evt) {

                try{

                    int a = Integer.parseInt(ajtf.getText());

                    int b = Integer.parseInt(bjtf.getText());

                    int ans = a/b;

                    alab.setText(&quot;\nA = &quot; + a);

                    blab.setText(&quot;\nB = &quot; + b);

                    anslab.setText(&quot;\nAns = &quot;+ ans);

                }

                catch(NumberFormatException e){

                    alab.setText(&quot;&quot;);

                    blab.setText(&quot;&quot;);

                    anslab.setText(&quot;&quot;);

                    err.setText(&quot;Enter Only Integers!&quot;);

                }

                catch(ArithmeticException e){

                    alab.setText(&quot;&quot;);

                    blab.setText(&quot;&quot;);

                    anslab.setText(&quot;&quot;);

                    err.setText(&quot;B should be NON zero!&quot;);

                }

            }

        });

        // display frame

        jfrm.setVisible(true);

    }

    public static void main(String args[]){

        // create frame on event dispatching thread

        SwingUtilities.invokeLater(new Runnable(){

            public void run(){

                new SwingDemo();

            }

        });

    }

}

Output:-







