Lab - 9.

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```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

class UserInterface {
    UserInterface() {
        // create jframe container
        JFrame jfrm = new JFrame("Division App");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        // to terminate on close
        jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        // text Label
        JLabel jlab = new JLabel("Enter the division & dividend:");
        // add text field for both numbers
        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);

        // calc Button
        JButton button = new JButton("calculate");

        // Labels
        JLabel err = new JLabel();
        JLabel alab = new JLabel();
        JLabel blab = new JLabel();
        JLabel ansLab = new JLabel();

        // add in order :)
        jfrm.add(err);
```

```
jfram.add(jlab);
jfram.add(ajtf);
jfram.add(bjtf);
jfram.add(button);
jfram.add(alab);
jfram.add(blab);
jfram.add(anslab);

ActionListener l = new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        System.out.println("Action event from a text field");
    }
};
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("\n A = ", a);
            blab.setText("\n B = ", b);
            anslab.setText("\n Ans = " + ans);
        } catch (NumberFormatException e) {
            alab.setText(" ");
            blab.setText(" ");
            anslab.setText(" ");
            err.setText("Enter only integers");
        }
```

```
        catch(ArithmeticException e) {
            alab.setText(" ");
            blab.setText(" ");
            ans lab.setText(" ");
            ens.setText("B should be NON zero!");
        }
    }
});

// display name.
jfrm.setVisible(true);
}

Public static void main(String[] args) {
    // create frame on event dipatching thread
    Swing Utilities.invokeLater(new Runnable() {
        Public run() {
            new UserInterface();
        }
    });
}
}
```

output:

Enter the divider & divident:

6 3

Calculate : A = 6 ; B = 3 Ans = 2