

LAB PROGRAM 10

```
import java.awt.*;  
import java.awt.event.*;  
  
public class Dir extends Frame implements ActionListener {  
    TextField t1, t2;  
    String msg = " ";  
    Button btn;  
    Dir() {  
        Label l1 = new Label("First Number:",  
            Lab.RIGHT);  
        t1 = new TextField(10);  
        Label l2 = new Label("Second Number:",  
            Label.Right);  
        t2 = new TextField(10);  
        btn = new Button("Submit");  
        // Label l = new Label("Updates:");  
        l1.setBackground(Color.YELLOW);  
        l2.setBackground(Color.YELLOW);  
        // this.setResizable(false);  
        this.add(l1);  
        this.add(t1);  
        this.add(l2);  
        this.add(t2);  
        // t1.setEchoChar('*');  
        // t2.setEchoChar('#');  
        this.add(btn, BorderLayout.CENTER);  
        this.setVisible(true);  
        this.setSize(600, 300);  
    }  
}
```

```

this.setLayout(new FlowLayout(FlowLayout.CENTER, 20, 10));
//t1.addActionListener(this);
b1.addActionListener(this);
addWindowListener(new MyWindow());
setBackground(Color.YELLOW);
//System.out.println(BorderLayout.CENTER);
}

```

@Override

```

public Insets getInsets() {
    return new Insets(50, 10, 10, 20);
}

```

@Override

```

public void actionPerformed(ActionEvent e) {
    String st1 = t1.getText();
    String st2 = t2.getText();
    double n1, n2;
    n1 = 0.0;
    n2 = 0.0;
    if (st1.equals("") || st2.equals("")) {
        msg = "Text elements cannot be left blank!";
    } else {
        try {
            n1 = Double.parseDouble(st1);
            n2 = Double.parseDouble(st2);
        } catch (ArithmeticException e1) {
            double res = n1/n2;
            msg = "Result of division : " + res;
        }
        msg = e1.toString();
    }
}

```

```

    } catch (NumberFormatException e2) {
        msg = "Only numbers accepted as text elements!";
    }
}

new MyDialog (this, "Result Dialog", false, msg,
n1, n2);

public static void main (String[] args) {
    new Div();
}

```

```

class MyDialog extends Dialog implements ActionListener {
    public MyDialog (Frame owner, String title, boolean modal,
        String msg, double n1, double n2) {
        super (owner, title, modal);
        this.setVisible (true);
        this.setSize (300, 400);
        this.setLayout (new FlowLayout());
        //System.out.println (owner);
        Label l1 = new Label ("    RESULT: ");
        //l1.setSize (300, 20);
        this.add (l1);
        this.add (new Label ("First Number: " + n1));
        this.add (new Label ("Second Number: " + n2));
        this.add (new Label (msg));

        Button b = new Button ("Close");
        this.add (b);
        b.addActionListener (this);
        this.addWindowListener (new WindowAdapter () {
            public void windowClosing (WindowEvent e) {

```



```
        dispose();  
    }  
}
```

(a) On the other side

```
public void actionPerformed (ActionEvent e) {  
    dispose();  
}
```

```
class MyWindow extends WindowAdapter {  
    public void WindowClosing (WindowEvent e) {  
        System.exit(0);  
    }  
}
```