

Event Handling (Division)

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

public class Division extends JFrame implements
```

Action Listener

```
{
    TextField n1, n2, res;
    Label l1, l2, lres;
    Button b;

    public Division()
    {
        setLayout(new FlowLayout());
        Label l1 = new Label("NUM1", Label.RIGHT);
        Label l2 = new Label("NUM2", Label.RIGHT);
        Label lres = new Label("RESULT", Label.RIGHT);
        n1 = new TextField(12);
        n2 = new TextField(8);
        res = new TextField(10);
        b = new Button("DIVIDE");

        add(l1);
        add(n1);
        add(l2);
        add(n2);
        add(b);
        add(lres);
        add(res);
        b.addActionListener(this);
        addWindowListener(new MyWindowAdapter());
    }
}
```

```

3
public void actionPerformed(ActionEvent ae)
{
    if (ae.getSource() == b)
    {
        try {
            int num1 = Integer.parseInt(n1.getText());
            int num2 = Integer.parseInt(n2.getText());
            int num3 = num1 / num2;
            res.setText(String.valueOf(num3));
        }
        catch (NumberFormatException ne)
        {
            JOptionPane.showMessageDialog(this, ne, "ERROR",
                JOptionPane.ERROR_MESSAGE);
        }
        catch (ArithmeticException a)
        {
            JOptionPane.showMessageDialog(this, a, "ERROR",
                JOptionPane.ERROR_MESSAGE);
        }
    }
}

3
public static void main(String[] args)
{
    Division i = new Division();
    i.setSize(new Dimension(400, 400));
    i.setTitle("INTEGER DIVISION OF TWO NUMBERS");
    i.setVisible(true);
}

class MyWindowAdapter extends WindowAdapter
{
    public void windowClosing(WindowEvent we)
    {
        System.exit(0);
    }
}
3

```