

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

```
class SampleDialogBox extends Dialog implements ActionListener  
{ IntDivUp idu;
```

```
DialogBox(Frame parent, String title)
```

```
{ super(parent, title, false);
```

```
idu = (IntDivUp) parent;
```

```
setLayout(new FlowLayout());
```

```
setSize( , );
```

```
add(new Label(idu.errmsg));
```

```
Button b;
```

```
add(b = new Button("OK"));
```

```
b.addActionListener(this);
```

```
}
```

```
public void actionPerformed(ActionEvent ae)
```

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

```
}
```

```
public class IntDivUp extends Frame implements ActionListener
```

```
{ TextField Num1, Num2, Result;
```

```
Button Divide;
```

```
String errmsg = " ";
```

```
public IntDivUp()
```

```
{ setLayout(new FlowLayout());
```

```
Divide = new Button("Divide");
```

```
Label Num1p = new Label("Num1: ", Label.RIGHT);
```

```
Label Num2p = new Label("Num2: ", Label.RIGHT);
```

```
Num1 = new TextField(10);
```

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```
Num2 = new JTextField(10); Result = new JTextField(10);
add(Num1p);
add(Num1);
add(Num2p);
add(Num2);
add(Divide); add(Result);
Divide.addActionListener(this);
addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent we)
    { System.exit(0); }
});
{
    public void actionPerformed(ActionEvent ae)
    { int a=0, b=1, r=0;
      try
      { a = Integer.parseInt(Num1.getText());
        b = Integer.parseInt(Num2.getText()); }
      catch (NumberFormatException e)
      { errMsg = "Caught: " + e;
        SampleDialog d = new DialogBox(this, "Dialog");
        d.setVisible(true); }
      try { r = a/b; }
      catch (ArithmeticException e)
      { errMsg = "Caught: " + e + " Num2 = " + b;
        SampleDialog d = new SampleDialog(this, "Dialog");
        d.setVisible(true); }
      Result.setText(" " + r);
    }
}
```

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```
public static void main(String args[])  
{ IntDivUp appwin = new IntDivUp();  
  appwin.setSize(new Dimension  
  appwin.setTitle("Integer Division");  
  appwin.setVisible(true);  
}  
}
```