

```

import java.awt.*;

import java.awt.event.*;

class SampleDialog extends Dialog implements ActionListener
{
    IntDivUp idu;

    SampleDialog(Frame parent, String title)
    {
        super(parent, title, false);

        idu=(IntDivUp)parent;

        setLayout(new FlowLayout());

        setSize(500, 200);

        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);
```

```
Num2 = new TextField(10);
```

```
Result = new TextField(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 SampleDialog(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);  
  
}
```

```
public static void main(String args[])  
{ IntDivUp appwin = new IntDivUp();  
  
appwin.setSize(new Dimension(700,700));  
  
appwin.setTitle("Integer Division");  
  
appwin.setVisible(true);  
  
}  
  
}
```



