

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

class SimpleDialog extends Dialog implements ActionListener

```
{
    Dimension div;
    SimpleDialog (Frame parent, String title)
```

```
{
    super (parent, title, false);
    div = (Dimension) parent.getSize();
    SetLayout (new FlowLayout());
    setSize (400, 150);
    add (new Label (div.msg));
    Button b;
    add (b = new Button ("OK"));
    b.addActionListener (this);
}
```

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

public class Duration extends Frame implements ActionListener

```
{
    String msg = " ";
    String msg1 = " ";
    TextField n1, n2, res;
    Button b;
    Label result = new Label ("Result : ", Label.RIGHT);
```

```
public Division()
```

```
{
```

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

```
    Label1 num1 = new Label("Number 1 :", Label.RIGHT);
```

```
    Label2 num2 = new Label("Number 2 :", Label.RIGHT);
```

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

```
    n1 = new TextField(10);
```

```
    n2 = new TextField(10);
```

```
    res = new TextField(35);
```

```
    add(num1);
```

```
    add(n1);
```

```
    add(num2);
```

```
    add(n2);
```

```
    b = (Button)add(div);
```

```
    add(result);
```

```
    add(res);
```

```
    n1.addActionListener(this);
```

```
    n2.addActionListener(this);
```

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

```
    addWindowListener(new WindowAdapter() {
```

```
        public void windowClosing(WindowEvent we) {
```

```
            System.exit(0);
```

```
        }
```

```
    });
```

```
}
```



```
public static void main (String[] args)
```

```
{  
    Division appwin = new Division();  
    appwin.setSize(new Dimension(450, 180));  
    appwin.setTitle("Integer Division of two numbers");  
    appwin.setVisible(true);  
}
```

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

```
{  
    if (! (n1.getText().equals("")) & & ! (n2.getText().equals("")))
```

```
{  
    try
```

```
{  
        msg1 = " " + (Integer.parseInt(n1.getText()) / Integer.parseInt(n2.getText()))  
        res.setText(msg1);  
    }
```

```
    catch (NumberFormatException e)
```

```
{  
        msg = "ERROR : ONLY INTEGERS SHOULD BE ENTERED";  
        res.setText("");  
        SampleDialog d = new SampleDialog (this, "ERROR");  
        d.setVisible(true);  
    }
```

```
    catch (ArithmeticException e)
```

```
{  
        msg = "ERROR : DIVISION CANNOT BE ZERO";  
        res.setText("");  
        SampleDialog d = new SampleDialog (this, "ERROR");  
        d.setVisible(true);  
    }
```

```
}
```

else

{

msg = "ERROR: EMPTY NUMBER FIELDS";

res.setText("");

SampleDialog d = new SampleDialog(this, "ERROR");

d.setVisible(true);

}

}

}