

```
import java.awt.*;
import java.awt.event.*;
class DialogB extends Dialog implements ActionListener
{
```

```
    Division div;
```

```
    DialogB (Frame parent, String title)
    {
```

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

```
        div = (Division) parent;
```

```
        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 Division extends Frame implements ActionListener {
```

```
    TextField num1, num2, result;
```

```
    Button b1;
```

```
    String msg = " ";
```

```
    public Division ()
```

```
    {
```

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

```
        Label num1p = new Label ("Number 1 : ", label.  
                                   RIGHT);
```

```
        Label num2p = new Label ("Number 2 : ", label.  
                                   RIGHT);
```

```

b1 = new Button("Divide");
Label resultP = new Label("Result:", Label.RIGHT);
num1 = new TextField(12);
num2 = new TextField(12);
result = new TextField();
add(num1);
add(num2);
add(num1LP);
add(num2);
add(b1);
add(resultP);
add(result);
num1.addActionListener(this);
num2.addActionListener(this);
b1.addActionListener(this);
addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent we) {
        System.exit(0);
    }
});
}

public void actionPerformed(ActionEvent ae) {
    if (! (num1.getText().equals("") || num2.getText().equals(""))) {
        try {
            int x = Integer.parseInt(num1.getText());
            int y = Integer.parseInt(num2.getText());
            int z;
            z = x/y;

```



msg = "" + z;  
 }  
 catch (NumberFormatException e)

{  
 msg = "" + e;  
 result.setText("");  
 DialogBox d = new DialogBox(this, "ERROR");  
 d.setVisible(true);  
 }

catch (ArithmeticException e)

{  
 msg = "" + e;  
 result.setText("");  
 DialogBox d = new DialogBox(this, "ERROR");  
 d.setVisible(true);  
 }

}  
 else  
 {

msg = "Number fields should not be empty";  
 result.setText("");  
 DialogBox d = new DialogBox(this, "ERROR");  
 d.setVisible(true);  
 }

}  
 // repaint();

}  
 public void paint(Graphics g)

{  
 result.setText(msg);  
 }

public static void main(String args[])

{  
 Division a = new Division();

```
a.setSize ( new dimension ( 500, 100 ));
```

```
a.setTitle ( " 1st - division " );
```

```
a.setVisible ( true );
```

```
}
```

```
}
```