

```

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

class DivisionDialog extends Dialog implements ActionListener
{
    DivisionNewMain divnew;

    DivisionDialog(Frame parent, String title)
    {
        super(parent, title, true);
        divnew = (DivisionNewMain) parent;
        setLayout(new FlowLayout());
        setSize(300, 200);
        if (divnew.flag == 0)
        {
            add(new Label("Result: " + divnew.out));
            divnew.flag = 1;
        }
        else
        {
            add(new Label(divnew.out));
            divnew.flag = 0;
        }

        Button b;
        add(b = new Button("OK"));
        b.addActionListener(this);
    }

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

```

```

public class DivisionNewMain extends Frame implements
    ActionListener
{
    TextField num1, num2, outResult;
    Button dResult;
    String out = "";
    int flag = 0;
}

```

DivisionNewMain()

{

setLayout = (new FlowLayout());

dResult = new Button("RESULT");

Label number1 = new Label("Number1: ", Label.RIGHT);

Label number2 = new Label("Number2: ", Label.RIGHT);

Label outResultL = new Label("Result: ", Label.RIGHT);

num1 = new TextField(5);

num2 = new TextField(5);

outResult = new TextField(0);

add(number1);

add(num1);

add(number2);

add(num2);

add(dResult);

outResult.setEnabled(false);

dResult.addActionListener(this);

addWindowListener(new WindowAdapter()

{

public void windowClosing(WindowEvent we)

{

System.exit(0);

}

});

}

public void actionPerformed(ActionEvent ae)

{

int n1, n2;

try

{ if (ae.getSource() == dResult)

{

n1 = Integer.parseInt(num1.getText());

n2 = Integer.parseInt(num2.getText());

if (n2 == 0)

throw new ArithmeticException();

double resultNum = n1 / (double) n2;

```
out = String.valueOf(resultNum);
```

```
DivisionDialog d = new DivisionDialog(this, "Result");  
d.setVisible(true);    outResult.setText(out);  
}
```

```
}
```

```
catch (NumberFormatException e1)
```

```
{    flag = 1;
```

```
    out = "Number Format Exception! " + e1;
```

```
    new DivisionDialog(this, "Error").setVisible(true);
```

```
}
```

```
catch (ArithmeticException e2)
```

```
{    flag = 1;
```

```
    out = "Divide by 0 Exception! " + e2;
```

```
    new DivisionDialog(this, "Error").setVisible(true);
```

```
}
```

```
}
```

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

```
{
```

```
    DivisionNewMain dm = new DivisionNewMain();
```

```
    dm.setSize(new Dimension(800, 400));
```

```
    dm.setTitle("Division of Integer");
```

```
    dm.setVisible(true);
```

```
}
```

```
}
```