

```

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(600, 200);
        if (divnew.flag == 0)
        {
            add(new Label("Result: " + divnew.out));
        }
        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 outResult = new Label("Result:", Label.RIGHT);
```

```
num1 = new TextField();
```

```
num2 = new TextField();
```

```
outResult = new TextField();
```

```
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;
```

```
char result = num1.getText().charAt(0) - '0' - 48;
```

```
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, "Exception").setVisible(true);
}

catch (ArithmException e2)
{
flag=1;
out = "Divide by 0 Exception! "+e2;
new DivisionDialog(this, "Exception").setVisible(true);
}

}

public static void main(String[] args)
{
DivisionNewMain dm=new DivisionNewMain();
dm.setPage(new Division(800,400));
dm.setTitle("Division of Integers");
dm.setVisible(true);
}
```