

```
import java.awt.*;

import java.awt.event.*;

public class Division extends Frame implements ActionListener {

    public class DialogD extends Frame{
        String msg;
        DDialog myDialog;

        public DialogD() {
            myDialog = new DDialog(this, "New Dialog Box", msg);
        }
    }
    String msg;

    TextField num1, num2, res;

    Label l1, l2, l3;

    Button div;

    public Division() {

        setLayout(new FlowLayout());

        l1 = new Label("Dividend",Label.RIGHT);

        l2 = new Label("Divisor", Label.RIGHT);

        l3 = new Label("Result", Label.RIGHT);

        num1 = new TextField(10);

        num2 = new TextField(10);

        res = new TextField(10);

        div = new Button("DIVIDE");

        add(l1);

        add(num1);
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add(12);

add(num2);

add(13);

add(res);

add(div);


div.addActionListener(this);

addWindowListener(new MyWindowAdapter());
}


public void actionPerformed(ActionEvent ae) {

    int num1 = 0, num2 = 0;

    try {

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

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

        double num3 =(double) num1 / num2;

        res.setText(String.valueOf(num3));

        msg = "Division Successful";

    } catch (NumberFormatException e) {

        System.out.println(e);

        res.setText("");

        msg = "NumberFormatException ";
    }
}
```

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DDialog dd = new DDialog(this, "Dialog", msg);
dd.setVisible(true);
return;
}

try {

    if(num2==0)

        throw new ArithmeticException();

    msg = "Can't be divided by Zero";

} catch (ArithmeticException e) {

    System.out.println("Can't be divided by Zero" + e);

    res.setText("");

    msg = "Can't be divided by Zero";

    DDialog dd = new DDialog(this, "Dialog", msg);
    dd.setVisible(true);
    return;

}

}

public void paint(Graphics g) {

    g.drawString(msg, 80, 100);

}

public static void main(String[] args) {

    Division appwin = new Division();

    appwin.setSize(new Dimension(480,280));
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appwin.setTitle("Division");

appwin.setVisible(true);

}

}

class MyWindowAdapter extends WindowAdapter {

public void windowClosing(WindowEvent we)

{

System.exit(0);

}

}

class DDIALOG extends Dialog {
DDIALOG(Frame parent, String title, String msg)
{
super(parent,title,false);
setLayout(new FlowLayout());
setSize(300,300);
add(new Label(msg));
Button b;
add(b = new Button("OK"));
b.addActionListener((ae)->dispose());
addWindowListener(new WindowAdapter() {
public void windowClosing(WindowEvent we)
{
dispose();
}
});
}
}
```



