

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

```
class MyDialog extends Dialog implements  
ActionListener {
```

```
    Prog1 p;
```

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

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

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

```
        setSize (300, 150);
```

```
        P = (Prog1) parent;
```

```
        Button b = new Button ("OK");
```

```
        Label l = new Label ("Error : " + p.error);
```

```
        add (l);
```

```
        add (b);
```

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

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

```
        dispose();
```

```
    }
```

```
}
```

```
public class Prog1 extends Frame implements ActionListener
```

```
Text Field Num1, Num2;
```

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

```
float res = 0;
```

```
public String error = "";
```

```
public Prog1() {
```

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

```
    Num1 = new TextField (1);
```

```
    Num2 = new TextField (1);
```

```
    Label Num1L = new Label ("Num1: ", Label.RIGHT);
```

```
    Label Num2L = new Label ("Num2: ", Label.RIGHT);
```

```
    add (Num1L);
```

```
    add (Num1);
```

```
    add (Num2L);
```

```
    add (Num2);
```

```
    add (divide);
```

```
    divide.add ActionListener (this);
```

```
    add Window Listener (new WinAdapter ());
```

```
}
```

```

public void actionPerformed (ActionEvent ae) {
    if (ae.getSource() == divide) {
        try {
            int n1 = Integer.parseInt(Nom1.getText());
            int n2 = Integer.parseInt(Nom2.getText());
            if (n2 == 0) {
                throw new ArithmeticException("Error");
            }
            res = (float) n1/n2;
            repaint();
        } catch (NumberFormatException exception) {
            System.out.println(exception);
            res = 0;
            error = "Entered number is not an Integer.";
            repaint();
        } catch (ArithmeticException exception) {
            System.out.println(exception);
            res = 0;
            error = "You tried to divide by zero.";
            repaint();
        }
    }
}

```



```

        if (res == 0) {
            System.out.println(this.error);
            MyDialog d = new MyDialog(this, "Error");
            d.setVisible(true);
        }
    }
}

```

```

public void paint(Graphics g) {
    g.drawString("Result: " + String.valueOf(
        20, 100);
}

```

```

public static void main(String[] args) {
    Prog1 p = new Prog1();
    p.setSize(new Dimension(400, 200));
    p.setTitle("Divide");
    p.setVisible(true);
}
}

```

```
class WinAdapter extends WindowAdapter {  
    public void windowClosing(WindowEvent  
        we) {  
        System.exit(0);  
    }  
}
```

```
}
```