

Yashwanth

```
import java.awt.*;  
import java.awt.event.*;  
class MyDialog extends Dialog implements ActionListener {  
    Prog1 p;  
    MyDialog(Frame parents, 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 {
    TextField 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);
        Label1 Num1L = new Label("Num1:", Label.RIGHT);
        Label1 Num2L = new Label("Num2:", Label.RIGHT);
        add (Num1L);
        add (Num1);
        add (Num2L);
        add (Num2);
        add (divide);
        divide.addActionListener (this);
        addWindowListener (new WinAdapter ());
    }

```

```

    public void actionPerformed (ActionEvent ae) {
        if (ae.getSource () == divide) {
            try {

```

```

                int n1 = Integer.parseInt (Num1.getText ());
                int n2 = Integer.parseInt (Num2.getText ());
                if (n2 <= 0) {
                    throw new ArithmeticException ("Error");
                }

```

```

res = (float) n1/n2;
repaint();
} catch (NumberFormatException exception) {
    System.out.println(exception);
    res = 0;
    error = "Entered no. 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(res), 20, 100);
}

```



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

```
    Prog1 p = new Prog1();
```

```
    p.setSize (new Dimension (400, 100));
```

```
    p.setTitle ("Divide");
```

```
    p.setVisible (true);
```

```
}
```

```
}
```

```
class WinAdapter extends WindowAdapter {
```

```
    public void windowClosing (WindowEvent we) {
```

```
        System.exit (0);
```

```
}
```

```
}
```