

```

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 {

```

```

    TextField Num1, Num2;

```

```

    Button divide = new Button("Divide");

```

```

    float res = 0;

```

```

    public String error = " ";

```

```

    public Prog1() {

```

```

        setLayout(new FlowLayout());

```

```

        Num1 = new TextField(1);

```

```

Num 2 = new TextField (1);
Label Num 1L = new Label ("Num1:", Label.RIGHT);
Label Num 2L = new Label (" Num2:", Label.RIGHT);
add (Num 1L);
add (Num 1);
add (Num 2L);
add (Num 2);
add (divide);
divide.addActionListener (this);
addWindowListener (new WindowAdapter());

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 number is not an integer.";
            error = "You tried to divide by zero."
            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) {
    Prog 1 p = new Prog 1();
    p.setSize (new Dimension (400, 250));
    p.setTitle ("Divide");
    p.setVisible(true);
}
}

```

```

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

```