

import java.awt.*;
import java.awt.event.*;
public class Division extends Frame implements
ActionListener {

public class DialogD extends Frame {
String msg;

Dialog myDialog;

public Dialog D() {

myDialog = new Dialog(this, "New Dialog Box",

}

}

String msg;

TextField num1, num2, res;

Label l1, l2, l3;

Button div;

public Division() {

setLayout(new FlowLayout());

l1 = new Label("Number 1", Label.RIGHT);

l2 = new Label("Number 2", Label.RIGHT);

l3 = new Label("Answer 3", Label.RIGHT);

num1 = new TextField(10);

num2 = new TextField(10);

res = new TextField(10);

div = new Button("Divide");

add(l1);

add(num1);

add(l2);

add(num2);

add(l3);

add(res);

add(div);

div.addActionListener(this);


```
add WindowListener (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 = "The Division was Successful";  
        } catch (NumberFormatException e) {  
            System.out.println (e);  
            res.setText ("");  
            msg = "Number Format Exception";  
            Dialog dd = new Dialog (this, "Dialog", msg);  
            dd.setVisible (true);  
            return;  
        }  
        try {  
            if (num2 == 0)  
                throw new ArithmeticException ();  
            msg = "can't divide by zero";  
        } catch (ArithmeticException e) {  
            System.out.println ("can't divide by zero" + e);  
            res.setText ("");  
            msg = "can't be divided by zero";  
            Dialog dd = new Dialog (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));
 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();
 }

});

}

}