

```

1 import java.awt.*;
2 import java.awt.event.*;
3
4 class SampleDialog extends Dialog implements ActionListener{
5     IntDivision iobj;
6     SampleDialog(Frame parent, String title){
7         super(parent, title, false);
8         iobj = (IntDivision)parent;
9         setLayout(new FlowLayout());
10        setSize(100,50);
11        add(new Label(iobj.msg));
12        Button b;
13        add(b = new Button("OK"));
14        b.addActionListener(this);
15    }
16    public void actionPerformed(ActionEvent ae){
17        dispose();
18    }
19 }
20
21 class IntDivision extends Frame implements ActionListener{
22     Button calculate;
23     TextField int1;
24     TextField int2;
25     double result;
26     int a,b;
27     String msg= "Enter The Two Numbers";
28     Dialog SampleDialog;
29     public IntDivision(){
30
31         setLayout(new FlowLayout());
32
33         calculate = new Button("calculate");
34         int1 = new TextField(10);
35         Label n1 = new Label("Number1", Label.RIGHT);
36         int2 = new TextField(10);
37         Label n2 = new Label("Number2", Label.RIGHT);
38
39         add(n1);
40         add(int1);
41         add(n2);

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21 class IntDivision extends Frame implements ActionListener{
22     Button calculate;
23     TextField int1;
24     TextField int2;
25     double result;
26     int a,b;
27     String msg= "Enter The Two Numbers";
28     Dialog SampleDialog;
29     public IntDivision(){
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31         setLayout(new FlowLayout());
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33         calculate = new Button("calculate");
34         int1 = new TextField(10);
35         Label n1 = new Label("Number1", Label.RIGHT);
36         int2 = new TextField(10);
37         Label n2 = new Label("Number2", Label.RIGHT);
38
39         add(n1);
40         add(int1);
41         add(n2);
42         add(int2);
43         add(calculate);
44         int1.addActionListener(this);
45         int2.addActionListener(this);
46         calculate.addActionListener(this);
47         addWindowListener(new MyWindowAdapter());
48     }
49
50     public void actionPerformed(ActionEvent ae){
51         try{
52             result = onDivision();
53             msg = ("The final result is: " +result);
54             repaint();
55         }
56         catch(NumberFormatException e){
57             msg = ("The number is not an integer " +e);
58             repaint();
59         }
60         catch(ArithmeticException e){
61             msg = ("The integer cannot be divided by zero " +e);

```



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49
50 public void actionPerformed(ActionEvent ae){
51     try{
52         result = onDivision();
53         msg = ("The final result is: " + result);
54         repaint();
55     }
56     catch(NumberFormatException e){
57         msg = ("The number is not an integer " + e);
58         repaint();
59     }
60     catch(ArithmeticException e){
61         msg = ("The integer cannot be divided by zero " + e);
62         SampleDialog dia = new SampleDialog(this, "Dialog");
63         dia.setSize(new Dimension(600,300));
64         dia.setVisible(true);
65     }
66 }
67
68 public double onDivision(){
69     a = Integer.parseInt(int1.getText());
70     b = Integer.parseInt(int2.getText());
71     if(b==0){
72         throw new ArithmeticException();
73     }
74     return (double)a/b;
75 }
76
77 public void paint(Graphics g){
78     g.drawString(msg, 200, 200);
79 }
80
81 public static void main(String args[]){
82     IntDivision d = new IntDivision();
83     d.setSize(new Dimension(500, 500));
84     d.setTitle("Integer Division");
85     d.setVisible(true);
86 }
87 }
88
89 class MyWindowAdapter extends WindowAdapter{

```

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56     catch(NumberFormatException e){
57         msg = ("The number is not an integer " +e);
58         repaint();
59     }
60     catch(ArithmeticException e){
61         msg = ("The integer cannot be divided by zero " +e);
62         SampleDialog dia = new SampleDialog(this, "Dialog");
63         dia.setSize(new Dimension(600,300));
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68 public double onDivision(){
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77 public void paint(Graphics g){
78     g.drawString(msg, 200, 200);
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81 public static void main(String args[]){
82     IntDivision d = new IntDivision();
83     d.setSize(new Dimension(500, 500));
84     d.setTitle("Integer Division");
85     d.setVisible(true);
86 }
87 }
88
89 class MyWindowAdapter extends WindowAdapter{
90     public void windowClosing(WindowEvent event){
91         System.exit(0);
92     }
93 }

```



Integer Division

Number1  Number2

Enter The Two Numbers









