

```

1  import java.awt.*;
2  import java.awt.event.*;
3  class DialogBox extends Dialog implements ActionListener
4  {
5      lab10_updated l;
6      DialogBox(Frame parent,String title)
7      {
8          super(parent,title, modal: false);
9          l=(lab10_updated)parent;
10         setLayout(new FlowLayout());
11         setSize( width: 250, height: 100);
12         add(new Label(l.msg));
13         Button b=new Button( label: "Okay");
14         add(b);
15         b.addActionListener( l: this);
16     }
17     public void actionPerformed(ActionEvent ae)
18     {
19         dispose();
20     }
21 }
22 public class lab10_updated extends Frame implements ActionListener{
23     TextField num1,num2,res;
24     String num3;
25     Button div;
26     String msg="";
27     public lab10_updated()

```

```
28 {
29     setLayout(new FlowLayout());
30     num1=new TextField( columns: 12);
31     num2=new TextField( columns: 10);
32     res=new TextField( columns: 8);
33     Label number1=new Label( text: "Num1:",Label.RIGHT);
34     Label number2=new Label( text: "Num2:",Label.RIGHT);
35     Label result=new Label( text: "Result:",Label.RIGHT);
36     div=new Button( label: "Divide");
37     add(number1);
38     add(num1);
39     add(number2);
40     add(num2);
41     add(div);
42     add(result);
43     add(res);
44     num1.addActionListener( k this);
45     num2.addActionListener( k this);
46     div.addActionListener( k this);
47     res.addActionListener( k this);
48     addWindowListener(new WindowAdapter() {
49         public void windowClosing(WindowEvent e) {
50             System.exit( status: 0);
51         }
52     });
53 }
54 public void actionPerformed(ActionEvent ae)
```

```
lab10.java week13_extra1.java week13_extra2.java ButtonListD.java lab10_updated.java
54 public void actionPerformed(ActionEvent ae)
55 {
56     String s=ae.getActionCommand();
57     if (s.equals("Divide"))
58     {
59         res.setText(divide());
60     }
61 }
62 String divide()
63 {
64     int n;
65     int n1,n2;
66     try
67     {
68         n1=Integer.parseInt(num1.getText());
69         n2=Integer.parseInt(num2.getText());
70         try {
71             n=n1/n2;
72             num3 = String.valueOf(n);
73             return num3;
74         }
75         catch(ArithmeticException e)
76         {
77             msg="Cannot divide Num1 by zero";
78             DialogBox d=new DialogBox( parent.this, title: "Exception message box");
79             d.setVisible(true);
80             return "";
```



```
75     catch(ArithmeticException e)
76     {
77         msg="Cannot divide Num1 by zero";
78         DialogBox d=new DialogBox( parent: this, title "Exception message box");
79         d.setVisible(true);
80         return "";
81     }
82 }
83 catch(NumberFormatException nf)
84 {
85     msg="The input numbers should be integers";
86     DialogBox d=new DialogBox( parent: this, title "Exception message box");
87     d.setVisible(true);
88     return "";
89 }
90 }
91 public static void main(String[] args)
92 {
93     Lab10_updated appwin=new Lab10_updated();
94     appwin.setSize(new Dimension( width: 380, height: 180));
95     appwin.setTitle("Division");
96     appwin.setVisible(true);
97 }
98 }
99
100
```



Division



Num1:

Num2:

Result:



Exception message box



The input numbers should be integers



Division



Num1: 98

Num2: 6

Divide

Result: 16

