

LAB PROGRAM – 10

INPUT:

```
C:\Users\91944\OneDrive\Desktop\OO\LAB\Week_12\Division.java - Sublime Text (UNREGISTERED)
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login.html x dellist.c x operationlist.c x Division.java x doublylist.c x

1  import java.awt.*;
2  import java.awt.event.*;
3
4  class SampleDialog extends Dialog implements ActionListener
5  {
6      Division div;
7      SampleDialog(Frame parent, String title)
8      {
9          super(parent, title, false);
10         div=(Division)parent;
11         setLayout(new FlowLayout());
12         setSize(400, 150);
13         add(new Label(div.msg));
14         Button b;
15         add(b = new Button("OK"));
16         b.addActionListener(this);
17     }
18
19     public void actionPerformed(ActionEvent ae)
20     {
21         dispose();
22     }
23 }
24
25
26 public class Division extends Frame implements ActionListener
27 {
28     String msg = "";
29     String msg1 = "";
30     TextField n1, n2, res;
31
32     Button b;
33     Label result = new Label("Result :", Label.RIGHT);
34
35     public Division()
36     {
37         setLayout(new FlowLayout());
38         Label num1 = new Label("Number 1 : ", Label.RIGHT);
39         Label num2 = new Label("Number 2 : ", Label.RIGHT);
40         Button div = new Button("Divide");
41         n1 = new TextField(10);
42         n2 = new TextField(10);
43         res = new TextField(35);
44
45         add(num1);
46         add(n1);
47         add(num2);
48         add(n2);
49         b = (Button)add(div);
50         add(result);
51         add(res);
52
53         n1.addActionListener(this);
54         n2.addActionListener(this);
55         b.addActionListener(this);
56
57         addWindowListener(new WindowAdapter() {
58             public void windowClosing(WindowEvent we) {
59                 System.exit(0);
60             }
61         });
62     }
63
64     public static void main(String[] args)
65     {
66         Division appwin = new Division();
67         appwin.setSize(new Dimension(450, 180));
68         appwin.setTitle("Integer-Division");
69         appwin.setVisible(true);
70     }
71
72     public void actionPerformed(ActionEvent ae)
73     {
74         if(!(n1.getText().equals("")) && !(n2.getText().equals("")))
75         {
76             try
77             {
78                 msg1 = ""+(Integer.parseInt(n1.getText()) / Integer.parseInt(n2.getText()));
79                 res.setText(msg1);
80             }
81             catch(NumberFormatException e)
82             {
83                 msg = "ERROR : Enter ONLY Integers!";
84                 res.setText("");
85                 SampleDialog d = new SampleDialog(this, "ERROR");
86                 d.setVisible(true);
87             }
88             catch(ArithmeticException e)
89             {
90                 msg = "ERROR : Divisor CANNOT be ZERO!";
91                 res.setText("");
92             }
93         }
94     }
95 }
```

```

91         SampleDialog d = new SampleDialog(this, "ERROR");
92         d.setVisible(true);
93     }
94 }
95 else
96 {
97     msg = "ERROR : Number fields should NOT be EMPTY!";
98     res.setText("");
99     SampleDialog d = new SampleDialog(this, "ERROR");
100    d.setVisible(true);
101 }
102 }
103 }

```

OUTPUT:

Integer-Division

Number 1: Number 2:

Result:

Integer-Division

Number 1: Number 2:

Result:

ERROR

ERROR : Enter ONLY Integers!

Integer-Division

Number 1: Number 2:

Result:

ERROR

ERROR : Number fields should NOT be EMPTY!

Integer-Division

Number 1: Number 2:

Result:

ERROR

ERROR : Divisor CANNOT be ZERO!