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

```
TextFieldDemo,java X V lab10.java
    class IntDivision extends Frame implements ActionListener{
21
         Button calculate;
22
23
         TextField int1:
24
         TextField int2:
25
         double result;
26
         int a,b;
         String msg= "Enter The Two Numbers";
27
        Dialog SampleDialog;
public IntDivision(){
28
29
30
              setLayout(new FlowLayout());
31
32
             calculate = new Button("calculate");
33
             int1 = new TextField(10);
Label n1 = new Label("Number1", Label.RIGHT);
int2 = new TextField(10);
34
35
36
37
             Label n2 = new Label("Number2", Label.RIGHT);
38
39
             add(n1);
             add(int1);
40
                                                                          I
             add(n2);
add(int2);
41
43
              add(calculate):
              int1.addActionListener(this);
44
             int2.addActionListener(this);
45
46
             calculate.addActionListener(this);
              addWindowListener(new MyWindowAdapter());
47
48
         1
49
50
         public void actionPerformed(ActionEvent ae){
51
                  result = onDivision();
52
53
                  msg = ("The final result is: " *result);
                  repaint();
54
55
              cmtch(NumberFormatException e){
56
                  msg = ("The number is not an integer " *e);
57
58
                  repaint();
59
                   h(ArithmeticException e){
60
```

```
49
        public void actionPerformed(ActionEvent ae){
50
            try{
51
                result = onDivision();
52
                msg = ("The final result is: " +result);
53
54
                repaint():
55
56
            catch(NumberFormatException e){
                msg = ("The number is not an integer " +e);
57
58
                repaint():
59
            catch(ArithmeticException e){
60
                msg = ("The integer cannot be divided by zero " -e);
61
                SampleDialog dia = new SampleDialog(this, "Dialog");
62
                dia.setSize(new Dimension(600,300));
63
                dia.setVisible(true);
64
65
66
67
        public double onDivision(){
68
                                                                 1
69
            a = Integer.parseInt(int1.getText());
            b = Integer.parseInt(int2.getText());
70
            if(b=0){
71
                throw new ArithmeticException();
72
73
74
            return (double)a/b;
        1
75
76
        public void paint(Graphics g){
77
78
            g.drawString(msg, 200, 200);
79
80
        public static void main(String args[]){
81
            IntDivision d = new IntDivision();
82
            d.setSize(new Dimension(500, 500));
83
            d.setTitle("Integer Division");
84
85
            d.setVisible(true);
        }
86
87
    }
88
89 class MyWindowAdapter extends WindowAdapter{
```

```
catch(NumberFormatException e){
56
                    msg = ("The number is not an integer " +e);
57
58
                    repaint():
59
               catch(ArithmeticException e){
60
                    msg = ("The integer cannot be divided by zero " <e);
SampleDialog dia = new SampleDialog(this, "Dialog");
dia.setSize(new Dimension(600,300));</pre>
61
62
63
                    dia.setVisible(true);
64
65
          }
66
67
           white double onDivision(){
68
               a = Integer.parseInt(int1.getText());
69
               b = Integer.parseInt(int2.getText());
70
               if(b=0){
71
                    throw new ArithmeticException();
72
                                                                                  B
73
                  turn (double)a/b;
74
75
76
             blic void paint(Graphics g){
77
               g.drawString(msg, 200, 200);
78
79
80
          public static void main(String args[]){
81
               IntDivision d = new IntDivision();
82
               d.setSize(mew Dimension(500, 500));
d.setTitle("Integer Division");
83
84
85
               d.setVisible(true);
          }
86
87
    }
88
    class MyWindowAdapter extends WindowAdapter{
   public void windowClosing(WindowEvent event){
89
90
91
               System.exit(0);
92
```







