

The result is 3.333333

OK

ava>java ButtonListD

ButtonListD

—

□

×

Number 1 10

Number 2 3

Calculate

Enter the numbers

um2Label1);

um2TextField);

```
import java.awt.event.*;
import java.awt.*;
```

```
class SampleDialog extends Dialog implements ActionListener {
    ButtonListD bld;
    SampleDialog(Frame parent, String title) {
        super(parent, title, false);
        bld=(ButtonListD)parent;
        setLayout(new FlowLayout());
        setSize(500, 200);
        add(new Label(bld.msg));
        Button b;
        add(b = new Button("OK"));
        b.addActionListener(this);
    }
    public void actionPerformed(ActionEvent ae) {
        dispose();
    }
}
```

```
public class ButtonListD extends Frame implements ActionListener {
    TextField num1TextField;
    TextField num2TextField;
    Button calculate;
    Dialog d;
    int a,b;
    float result;
    String msg="Enter the numbers";
    public ButtonListD(){

        setLayout(new FlowLayout());

        calculate=new Button("Calculate");
```

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```
setLayout(new FlowLayout());
```

```
calculate=new Button("Calculate");  
num1TextField=new TextField(5);  
Label num1Label=new Label("Number 1",Label.RIGHT);  
num2TextField=new TextField(5);  
Label num2Label=new Label("Number 2",Label.RIGHT);
```

```
add(num1Label);  
add(num1TextField);  
add(num2Label);  
add(num2TextField);  
add(calculate);  
num1TextField.addActionListener(this);  
num2TextField.addActionListener(this);  
calculate.addActionListener(this);  
  
addWindowListener(new MyWindowAdapter());  
}
```

```
public void actionPerformed(ActionEvent ae) {  
    for(int i=0;i<3;i++){  
        if(ae.getSource()==calculate)  
        {  
            try{  
                result=divideNumbers();  
                msg=("The result is "+result);  
            }catch(NumberFormatException e){  
                msg="Number is not Integer."+e;  
            }catch(ArithmeticException e){  
                msg="Divide By zero not Allowed."+e;  
            }  
        }  
    }  
}  
SampleDialog d = new
```



```

    }
}
SampleDialog d = new
SampleDialog(this, "Dialog");
d.setVisible(true);
}

```

```

public float divideNumbers() {
    a=Integer.parseInt(num1TextField.getText());
    b=Integer.parseInt(num2TextField.getText());
    if(b==0){
        throw new ArithmeticException();
    }
    return (float)a/b;
}

```

```

public void paint(Graphics g){
    g.drawString(msg,50,100);
}

```

```

public static void main(String args[]){
    ButtonListD aa=new ButtonListD();
    aa.setSize(new Dimension(500,500));
    aa.setTitle("ButtonListD");
    aa.setVisible(true);
}
}

```

```

class MyWindowAdapter extends WindowAdapter {
    public void windowClosing(WindowEvent we) {
        System.exit(0);
    }
}

```