

→ Lab Program 10 -

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

```
class MyDialog extends Dialog {  
    Button bl;
```

```
    private String msg1;
```

```
    MyDialog(Frame parent, String title, boolean  
        mode, String msg1) {
```

```
        super(parent, title, mode);
```

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

```
        setSize(300, 300);
```

```
        this.msg1 = msg1;
```

```
        bl = new Button("Close");
```

```
        add(bl);
```

```
        bl.addActionListener((ae) → dispose());
```

```
        addWindowListener(new WindowAdapter() {
```

```
            public void windowClosing(WindowEvent we) {  
                dispose();  
            }  
        } );  
    }  
}
```

```
    public void paint(Graphics g) {
```

```
        g.drawString(msg1, 30, 80);  
    }  
}
```

```
public class lab10 extends Frame implements ActionListener {
```

```
    String msg = "";
```

```
    TextField num1, num2, res;
```

```
    Button division;
```

```
    public lab10() {
```

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

```
Label number1 = new Label ("NUMBER1:");
num1 = new TextField (10);
Label number2 = new Label ("NUMBER2:");
num2 = new TextField (10);
division = new Button ("11");
Label result = new Label ("RESULT:");
res = new TextField (10);
add (number1);
add (num1);
add (number2);
add (num2);
add (division);
add (result);
add (res);
num1.addActionListener (this);
num2.addActionListener (this);
division.addActionListener (this);
res.addActionListener (this);
addWindowListener (new MywindowAdapter());
```

```
try {
    int no1 = Integer.parseInt (num1.getText ());
    int no2 = Integer.parseInt (num2.getText ());
    c = no1 / no2;
    res.setText (String.valueOf (c));
} catch (ArithmeticException ex2) {
    new MyDialog (this, "error", true, "+" + ex2);
    setVisible (true);
} catch (NumberFormatException ex1) {
    new MyDialog (this, "error", true, "+" + ex1);
    setVisible (true);
}
```

3 3

public static void main (String args[]){

 Lab10 b = new Lab10();

 b.setSize(new Dimension(2000, 3000));

 b.setTitle("Lab 10");

 b.setVisible(true);

}

3

class MyWindowAdapter extends WindowAdapter {

 public void windowClosing(WindowEvent e) {

 System.exit(0);

33

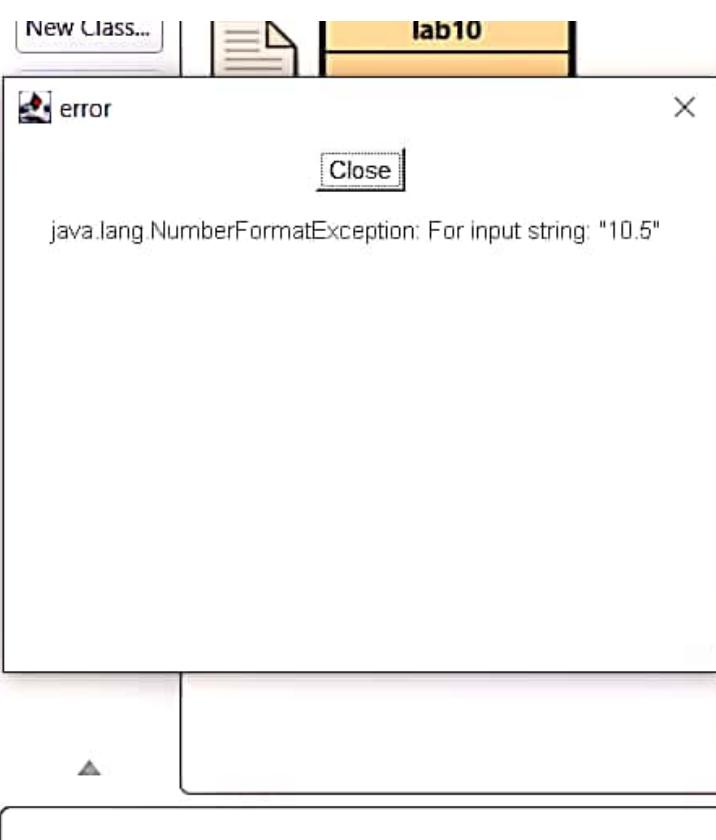
```
1 import java.awt.*;
2 import java.awt.event.*;
3
4 class MyDialog extends Dialog {
5     Button bl;
6     private String msg1;
7     MyDialog(Frame parent, String title, boolean mode, String msg1) {
8         super(parent, title, mode);
9         setLayout(new FlowLayout());
10        setSize(300,300);
11        this.msg1 = msg1;
12
13        bl = new Button("Close");
14        add(bl);
15        bl.addActionListener((ae) -> dispose());
16        addWindowListener(new WindowAdapter() {
17            public void windowClosing(WindowEvent we) {
18                dispose();
19            }
20        });
21    }
22    public void paint(Graphics g) {
23        g.drawString(msg1, 30, 80);
24    }
25}
26
27 public class lab10 extends Frame implements ActionListener{
28     String msg="";
29     TextField num1,num2,res;
30     Button division;
31     public lab10(){
32         setLayout(new FlowLayout());
33         Label number1 = new Label("NUMBER1:");
34         num1 = new TextField(10);
35         Label number2 = new Label("NUMBER2:");
36         num2 = new TextField(10);
37         division = new Button("\\");
38         Label result = new Label("RESULT:");
39         res = new TextField(10);
40         add(number1);
```

```
40     add(number1);
41     add(num1);
42     add(number2);
43     add(num2);
44     add(division);
45     add(result);
46     add(res);
47     num1.addActionListener(this);
48     num2.addActionListener(this);
49     division.addActionListener(this);
50     res.addActionListener(this);
51     addWindowListener(new MywindowAdapter());
52 }
53 public void actionPerformed(ActionEvent e){
54     double c;
55     try{
56         int no1 = Integer.parseInt(num1.getText());
57         int no2 = Integer.parseInt( num2.getText());
58         c = no1/no2;
59         res.setText(String.valueOf(c));
60     } catch(ArithmaticException ex2){
61         new MyDiaolg(this,"error",true,""+ex2).setVisible(true);
62     }
63     catch(NumberFormatException ex1){
64         new MyDiaolg(this,"error",true,""+ex1).setVisible(true);
65     }
66 }
67 }
68 public static void main(String args[])
69 {
70     lab10 b=new lab10();
71     b.setSize(new Dimension(2000,3000));
72     b.setTitle("Lab 10");
73     b.setVisible(true);
74 }
75 }
76 class MywindowAdapter extends WindowAdapter{
77     public void windowClosing(WindowEvent we){
78         System.exit(0);
79     }
}
```

 Lab 10

— □ ×

NUMBER1:	10	NUMBER2:	5	<input type="button" value=""/>
RESULT:	2.0			<input type="button" value=""/>



A screenshot of a Java application window titled "Lab 10". The window has three text input fields: "NUMBER1:" with the value "10.5", "NUMBER2:" with the value "5", and "RESULT:" with the value "2.0". The window also features standard minimize, maximize, and close buttons.

