

## Lab 10

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

```
class dialogbox extends Dialog implements ActionListener  
{
```

```
    main obj;
```

```
    dialogbox (Frame parent, string title)  
    {
```

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

```
        obj = (main) parent;
```

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

```
        setSize (400, 500);
```

```
        add (new Label (obj.amit));
```

```
        Button b;
```

```
        add (b = new Button ("OK"));
```

```
        b.addActionListener (this);
```

```
    }
```

```
    public void actionPerformed (ActionEvent ae)
```

```
    { dispose();
```

```
    }
```

```
}
```

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

```
    TextField Num1, Num2, Result;
```

```
    Button Divide;
```

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

```
    public main() {
```

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

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```
Divide = new Button("Divide");
```

```
Label num1 = new Label("Number 1:", Label.RIGHT);  
Label num2 = new Label("Number 2:", Label.RIGHT);
```

```
Num1 = new TextField(10);
```

```
Num2 = new TextField(10);
```

```
Result = new TextField(10);
```

```
add(num1);
```

```
add(Num1);
```

```
add(num2);
```

```
add(Num2);
```

```
add(Divide);
```

```
add(Result);
```

```
Divide.addActionListener(this);
```

```
addWindowListener(new WindowAdapter() {  
    public void windowClosing(WindowEvent we)
```

```
{
```

```
    System.exit(0); }
```

```
});
```

```
}
```

```
    public void actionPerformed(ActionEvent e)
```

```
{
```

```
    int a=0, b=1, x=0;
```

```
    try
```

```
    {
```

```
        a = Integer.parseInt(Num1.getText());
```

```
        b = Integer.parseInt(Num2.getText());
```

```
    }
```



```
catch (NumberFormatException e)
{
    amit = "caught: " + e;
    dialogbox d1 = new dialogbox (this, "Dialog");
    d1.setVisible(true);
}
```

```
try {
    r = a/b;
}
```

```
catch (ArithmeticException e)
{
    amit = "caught: " + e + "Num2=" + b;
    dialogbox d2 = new dialogbox (this, "dialog");
    d2.setVisible(true);
}
Result.setText (" " + r);
}
```

```
public static void main (String main[])
{
    main win = new main();
    win.setSize (new Dimension (400, 400));
    win.setTitle ("Integer Division");
    win.setVisible (true);
}
}
```

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

```
class Dialogbox extends Dialog implements ActionListener  
{  
    main obj;  
    Dialogbox(Frame parent,String title)  
    {super(parent,title,true);  
    obj=(main)parent;  
    setLayout(new FlowLayout());  
    setSize(400,400);  
    add(new Label(obj.amit));  
  
    Button b;  
    add(b = new Button("OK"));  
    b.addActionListener(this);  
    }  
    public void actionPerformed(ActionEvent ae)  
    {  
        dispose();  
    }  
}
```

```
public class main extends Frame implements ActionListener  
{  
    TextField Num1,Num2,Result;  
    Button Divide;
```



```
Button Divide;  
String amit="";  
public main()  
{  
    setLayout(new FlowLayout());  
    Divide =new Button("Divide");  
    Label num1=new Label("Number1:",Label.RIGHT);  
    Label num2 =new Label("Number2:",Label.RIGHT);  
    Num1=new TextField(10);  
    Num2=new TextField(10);  
    Result=new TextField(10);  
    add(num1);  
    add(Num1);  
    add(num2);  
    add(Num2);  
    add(Divide);  
    add(Result);  
    Divide.addActionListener(this);
```

```
    addWindowListener(new WindowAdapter(){  
        public void windowClosing(WindowEvent we)  
        {  
            System.exit(0); }  
    });  
}  
public void actionPerformed(ActionEvent ae)  
{
```

```
public void actionPerformed(ActionEvent ae)
{
    int a=0,b=1,r=0;
    try
    {
        a=Integer.parseInt(Num1.getText());
        b=Integer.parseInt(Num2.getText());
    }
    catch(NumberFormatException e)
    {
        amit="caught:" + e;
        Dialogbox d1=new Dialogbox(this,"Dialog");
        d1.setVisible(true);
    }
    try
    {
        r=a/b;
    }
    catch(ArithmeticException e)
    {
        amit="caught:" +e+"Num2=" +b;
        Dialogbox d2=new Dialogbox(this,"Dialog");
        d2.setVisible(true);
    }
    Result.setText("" + r);
}
```



```
{
    amit="caught:" + e;
    Dialogbox d1=new Dialogbox(this,"Dialog");
    d1.setVisible(true);
}
try
{
    r=a/b;
}
catch(ArithmeticException e)
{
    amit="caught:" +e+"Num2=" +b;
    Dialogbox d2=new Dialogbox(this,"Dialog");
    d2.setVisible(true);
}
Result.setText("" + r);
}

public static void main(String args[])
{
    main appwin=new main();
    appwin.setSize(new Dimension(400,500));
    appwin.setTitle("Interger division");
    appwin.setVisible(true);
}
}
```

Number1: 86

Number2: 0

Divide

0

Dialog

Σ

caught java.lang.ArithmeticException: / by zeroNum2=0

OK



Number1:

Number2: