

lab-13

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

~~class SampleDialog~~

```
class SampleDialog extends Dialog implements ActionListener  
{
```

```
    Division div;
```

```
    SampleDialog(Frame parent, String title)  
    {
```

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

```
        div = (Division)parent;
```

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

```
        setSize(400, 150);
```

```
        add(new Label(div.msg));
```

```
        Button b;
```

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

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

```
    }
```

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

```
    {
```

```
        dispose();
```

```
    }
```

```
}
```

```
public class Division extends Frame implements ActionListener
```

```
{
```

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

```
    String msg1 = "";
```

```
    TextField n1, n2, res;
```

```
    Button b1;
```

```
    Label result = new Label("Result :", Label.RIGHT);
```

public Division()

{

setLayout(new FlowLayout());

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

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

Button div = new Button("Divide");

n1 = new TextField(10);

n2 = new TextField(10);

res = new TextField(35);

add(num1);

add(n1);

add(num2);

add(n2);

b = (Button)add(div);

add(result);

add(res);

n1.addActionListener(this);

n2.addActionListener(this);

b.addActionListener(this);

addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent we) {

System.exit(0);

}

});

}

~~public~~

public static void main (String[] args)

{

~~Division appwin~~

Division appwin = new Division();

appwin.setSize(new Dimension(450, 180));

appwin.setTitle("Integer - Division");

appwin.setVisible(true);

}



```

for
public void actionPerformed (ActionEvent ae)
{
    if (! (n1.getText().equals(" ") && ! (n2.getText().equals(" ")))
    {
        try
        {
            msg1 = "" + (Integer.parseInt (n1.getText()) / Integer.parseInt
                (n2.getText()));
            res.setText(msg1);
        }
        catch (NumberFormatException e)
        {
            msg = "ERROR: Enter ONLY Integers!";
            res.setText("");
            SampleDialog d = new SampleDialog (this, "ERROR");
            d.setVisible(true);
        }
        catch (ArithmeticException e)
        {
            msg = "ERROR: Divisor Cannot be zero!";
            res.setText("");
            SampleDialog d = new SampleDialog (this, "ERROR");
            d.setVisible(true);
        }
    }
    else
    {
        msg = "ERROR: Number fields should not be empty!";
        res.setText("");
        SampleDialog d = new SampleDialog (this, "ERROR");
        d.setVisible(true);
    }
}
}

```