

Week 13

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

```
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 b;

Label result = new Label("Result");

Label RIGHT;

{ public Divisional()

{ setLayout(new FlowLayout());

Label num 1 = new Label("Number 1");

Label.Right);

Label num 2 = new Label("Number 2");

Label.Right);

Button div = new Button("Divide");

n1 = new TextField(10);

n2 = new TextField(10);

res = new TextField(35);

add(num 1);

add(n 1);

add(num 2);

add(n 2);

b = (Button) add(div);

add(result);

add(res);

n1.add ActionListener(this);

n2.add ActionListener(this);

b.add ActionListener(this);

```
add WindowListener(new Window
    Adapter())
```

```
{
```

```
    public void windowClosing(WindowEvent we)
    {
```

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

```
    }
```

```
});
```

```
}
```

```
public static void main (String args[]) {
    Division appwin = new Division();
    appwin.setSize (new Dimension(450, 180));
    appwin.setTitle ("Integer-Division");
    appwin.setVisible (true);
```

```
}
```

```
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 : Only Integer Input
                is Allowed!";
```



```
res.setText("");
```

```
SampleDialog d = new SampleDialog  
    (this, "Error");
```

```
d.setVisible(true);
```

```
}
```

```
catch (ArithmeticException e)
```

```
{
```

```
    msg = "Error: Cannot Divide by Zero";
```

```
    res.setText("");
```

```
    SampleDialog d = new SampleDialog  
        (this, "Error");
```

```
    d.setVisible(true);
```

```
}
```

```
}
```

```
}
```