

## Week 12 - Lab 10.

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

```
public class divnum extends frame implements  
ActionListener  
{
```

```
String msg = " ", res = " ";
```

```
Buttons division;
```

```
TextField num1p, num2p, result;
```

```
public divnum()
```

```
{
```

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

```
division = new Button("divide");
```

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

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

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

```
num1p = new TextField(12);
```

```
num2p = new TextField(12);
```

```
result = new TextField(12);
```

```
add(num1);
```

```
add(num1p);
```

```
add(num2);
```

```
add(num2p);
```

```
add(division);
```

```
add(result);
```

```
add(result);
```

```
num1p.addActionListener(this);
```

```
num2p.addActionListener(this);
```

```
division.addActionListener(this);
```

resul. addActionListener (this);  
add WindowListener (new WindowAdapter  
{ public void windowClosing  
(WindowEvent we) { System.exit (0);  
}});

?  
public void actionPerformed (ActionEvent ae)  
String str = ae.getActionCommand();  
if (str.equals ("divide"))  
?  
divideNum ();  
?

?.  
void divideNum ()

?  
int n1, n2, r=0;  
try  
{

?  
n1 = Integer.parseInt (num1p.getText());  
n2 = Integer.parseInt (num2p.getText());  
r = n1 / n2;  
resul. setText (String.valueOf (r));  
?

catch (NumberFormatException ne) {

?  
msg = "NUMBERFORMAT EXCEPTION";

? d = new dia (this, "EXCEPTION");  
d. setVisible (true);  
?

catch (ArithmaticException a) {

?  
msg = "ARITHMETIC EXCEPTION";

? dia d = new dia (this, "EXCEPTION");

? d. setVisible (true);  
?

?  
}

public static void main (String args[]) {  
 Divnum appwin = new Divnum();  
 appwin .setSize (new Dimension (250,150));  
 appwin .setTitle ("Division");  
 appwin .setVisible (true);  
}

8

class dia extends Dialog implements ActionListener  
{  
 Divnum bld;  
 dia (Frame parent, String title) {  
 super (parent, title, false);  
 bld = (Divnum) parent;  
 setLayout (new FlowLayout());  
 setSize (300, 200);  
 add (new Label (bld .msg));  
 }

Button b;

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

b . addActionListener (this);

8

public void actionPerformed (ActionEvent e) {  
 dispose ();

9

8