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OOJ

LAB-10

URBAN EDGE

```
import java.awt.*;
import java.awt.event.*;
Class MyDialog extends Dialog implements Action
listner {
Prog1 P;
MyDialog (Frame parents, String title) {
Super (parent, title, false);
Setlayout (new flowlayout());
Setsize (300, 150);
p = (prog1) parent;
Button b = new Button ("OK");
-label l = new Label ("Error:" +p.error);
add(l);
add (b);
b.addActionlistner (this);
}
}

public void action performed (ActionEvent ae) {
dispose();
}
}
Public class Prog1 extends Frame implements Action
listner {
Text Field Num1, Num2;
Button divide = new Button ("Divide");
float res = 0;
public String error = " ";
public Prog1() {
        Setlayout (new FlowLayout());
        Num1 = new TextField(1);
        Num2 = new TextField(1);
```

```
Label1 Num1L = new Label ("Num1 :", Label.RIGHT);
Label2 Num2L = new Label ("Num2:", Label.RIGHT);
add (Num1L);
add (Num1);
add (Num2L);
add (Num2);
add (divide);
divide.addActionListner (this);
addWindowListner (new WinAdapter());
}

public actionPerformed (ActionEvent ae) {
if (ae.getSource() == divide) {
try {
int n1 = Integer.parseInt (Num1.getText());
int n2 = Integer.parseInt (Num2.getText());
if (n2 <= 0) {
        throw new ArithmeticException ("Error");
}
res = (float) n1/n2;
repaint();
}
Catch (NumberFormatException exception) {
  System.out.println(exception);
  res = 0;
  error = "Entered no. is not an integer.";
  repaint();
}

Catch (ArithmeticException exception){
System.out.println (exception);
res = 0;
```

```
error = "You tried to divide by zero.";
repaint ();
}
if (res == 0) {
System.out.println (this.error);
MyDialog d = new MyDialog (this, "Error");
d.setVisible (true);
}
}
}
}
public void paint (Graphics g) {
g.drawString ("Result:" + String.valueOf (res), 20, 100);
}
public static void main (String [] args) {
Prog1 p = new Prog1 ();
p.setSize (new Dimension (400, 100));
p.setTitle ("Divide");
p.setVisible (true);
}
}
Class WinAdapter extends WindowAdapter {
public void windowClosing (WindowEvent we) {
System.exit (0);
}
}
```