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Lab - 10

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AWT Program

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

class dia extends Dialog implements ActionListener {
    Integer division id;
    dia (Frame parent, String title) {
        super (parent, title, false);
        id = (Integer division) parent;
        setLayout (new FlowLayout());
        setSize (300, 200);
        add (new Label (id.msg));
        Button b;
        add (b = new Button ("OK"));
        b.add ActionListener (this);
    }
    public void actionPerformed (ActionEvent ae) {
        dispose
        dispose();
    }
}

public class integerdivision extends Frame implements ActionListener {
    String msg = " ";
    TextField n1, n2, res;
    Label ln1, ln2, lres;
    Button b;
    public integerdivision () {
        setLayout (new FlowLayout());
        Label ln1 = new Label ("NUMBER 1", Label.RIGHT);
        Label ln2 = new Label ("NUMBER 2", Label.RIGHT);
        Label lres = new Label ("RESULT", Label.RIGHT);
        n1 = new TextField (12);
        n2 = new TextField (8);
        res = new TextField (10);
        b = new Button ("DIVIDE");
        add (ln1);
        add (n1);
```

```

add (ln2);
add (n2);
add (lres);
add (res);
b.add ActionListener (this);
add WindowListener (new WindowAdapter 1());

```

```

}
public void actionPerformed (ActionEvent ae)
{ if (ae.getSource () == b)
    { try {
        int num1 = Integer.parseInt (n1.getText ());
        int num2 = Integer.parseInt (n2.getText ());
        int num3 = num1 / num2 ;
        res.setText (String.valueOf (num3));
    }
    catch (NumberFormatException ne) {
        msg = "NUMBERFORMAT EXCEPTION";
        dia d = new dia (this, "EXCEPTION");
        d.setVisible (true);
    }
    catch (ArithmeticException a) {
        msg = "ARITHMETIC EXCEPTION";
        dia d = new dia (this, "EXCEPTION");
        d.setVisible (true);
    }
}
}

```

```

}
public static void main (String args[])
{ IntegerDivision i = new IntegerDivision ();
  i.setSize (600, 400);
  i.setTitle ("INTEGER Division of Two numbers");
  i.setVisible (true);
}
class WindowAdapter1 extends WindowAdapter {
  public void windowClosing (WindowEvent we)
  { System.exit (0);
  }
}
}

```