LAB 10

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

public class DivisionMain extends Frame implements
        ActionListener
{
    TextField num1,num2;
    Button dResult;
    Label outResult;
    String out="";
    double resultNum;
    int flag=0;

    public DivisionMain()
    {
        setLayout(new FlowLayout());
        dResult = new Button("RESULT");
        Label number1 = new Label("Number 1: ", Label.RIGHT);
        Label number2 = new Label("Number 2: ", Label.RIGHT);
        num1 =new TextField(5);
        num2 =new TextField(5);
        outResut = new Label("Result:", Label.RIGHT);
        add(number1);
        add(num1);
        add(number2);
        add(num2);
        add(dResult);
        add(outResult);

        num1.addActionListener(this);
        num2.addActionListener(this);
        dResult.addActionListener(this);
        addWindowListener(new WindowAdapter()
        { public void windowClosing(WindowEvent we)
            { System.exit(0);
        });}
```

```
}

public void actionPerformed(ActionEvent ae)
{   int
    double n1,n2;
    try
    {
        if(ae.getSource() == dResult)
        {
            n1=Integer.parseInt(num1.getText());
            n2=Integer.parseInt(num2.getText());
            if(n2==0)
              throw new ArithmeticException();
            resultNum = n1/(double)n2;
            out = String.valueOf(resultNum);
            repaint();
        }
    }
      catch(NumberFormatException e1)
      {
          flag = 1;
          out="Number Format Exception!"+e1;
          repaint();
      }
      catch(ArithmeticException e2)
      {
          flag=1;
          out="Divide by 0 Exception!"+e2;
          repaint();
      }
}

public void paint(Graphis g)
{
    if(flag==0)
    g.drawString(out,outResult.getX()+outResult.getWidth(),
                        outResult.getY()+outResult.getHeight()-8);
    else
    g.drawString(out,100,200);
    flag=0;
}
```

```
public static void main (String[] arg)
{
    DivisionMain dm = new DivisionMain();
    dm.setSize(new dimension(800,400));
    dm.setTitle ("Division of Integers");
    dm.setVisible (true);
  }
}
```