

LAB PROGRAM 10

Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a `NumberFormatException`. If Num2 were Zero, the program would throw an `ArithmeticException`. Display the exception in a message dialog box.

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

public class division extends Frame implements ActionListener{
    TextField n1,n2,res;
    Label ln1,ln2,lres;
    Button b;

    public division(){
        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(b);
        add(lres);
    }
}
```

```

        add(res);
        b.addActionListener(this);
        addWindowListener(new WindowAdapter1());
    }
    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 ){
                JOptionPane.showMessageDialog(this,ne,"ERROR",
                JOptionPane.ERROR_MESSAGE);
            }
            catch(ArithmeticException a){
                JOptionPane.showMessageDialog(this,a,"ERROR",
                JOptionPane.ERROR_MESSAGE);
            }
        }
    }
    public static void main(String args[])
    {
        division i=new division();
        i.setSize(new Dimension(700,300));
        i.setTitle("DIVISION OF TWO INTEGERS");
        i.setVisible(true);
    }

```

```
}  
class WindowAdapter1 extends WindowAdapter{  
    public void windowClosing(WindowEvent we)  
    {  
        System.exit(0);  
    }  
}  
}
```

Command Prompt - java division

```
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C:\Users\SAKSHI\JAVA PROGRAMS>java division
```



DIVISION OF TWO INTEGERS

NUMBER 1 NUMBER 2 RESULT

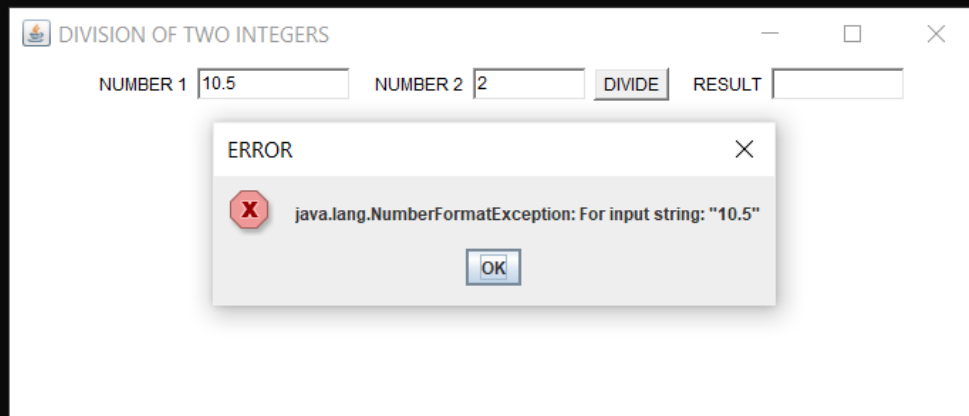
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