

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.

L&B PROGRAM - 10

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

public class Lab10 extends Frame implements ActionListener

{

 Text field n1, n2, res;

 Label l1, l2, res;

 Button b;

 public Lab10()

{

 setLayout(new FlowLayout(1));

 Label l1 = new Label("Number1", Label.RIGHT);

 Label l2 = new Label("Number2", Label.RIGHT);

 Label res = new Label("RESULT", Label.RIGHT);

 n1 = new TextField(12);

 n2 = new TextField(8);

 res = new TextField(12);

 Button b = new JButton("DIVIDE");

 add(l1);

 add(n1);

 add(l2);

 add(n2);

 add(b);

 add(res);

 add(res);

 b.addActionListener(this);

add WindowListener (new WindowAdapter() {

}

public void actionPerformed (ActionEvent ae)

{

if (ae.getSource () == b)

{

try

{

int num1 = Integer.parseInt (a1.getText ());

int num2 = Integer.parseInt (a2.getText ());

int num3 = num1 / num2;

oos . set Text (String .valueOf (num3));

}

catch (NumberFormatException e) {

JOptionPane . show Message Dialog (this, "ERROR", JOptionPane .

ERROR_MESSAGE);

catch (ArithmException a) {

JOptionPane . show Message Dialog (this, "ERROR", JOptionPane .

ERROR_MESSAGE);

public static void main (String args[])

{ Label i = new Label ();

i . SetSize (new Dimension (400, 400));

i . SetTitle ("INTEGER DIVISION OF TWO NUMBERS");

i . set Visible (true);

Class WindowAdapter extends WindowAdapter

{

public void windowClosing (WindowEvent we)

{ System . exit (0);

}}

Lab10.java - Notepad

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

public class Lab10 extends Frame implements ActionListener
{
    TextField n1,n2,res;
    Label ln1,ln2,ires;
    Button b;
    public Lab10()
    {
        setLayout(new FlowLayout(1));
        Label ln1=new Label("Number 1",Label.RIGHT);
        Label ln2=new Label("Number 2",Label.RIGHT);
        Label ires=new Label("RESULT",Label.RIGHT);
        n1=new TextField(12);
        n2=new TextField(8);
        res=new TextField(12);
        Button b=new Button("DIVIDE");
        add(ln1);
        add(n1);
        add(ln2);
        add(n2);
        add(b);
        add(ires);
        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[])
    {
        Lab10 l=new Lab10();
        l.setSize(new Dimension(400,400));
        l.setTitle("INTEGER DIVISION OF TWO NUMBERS");
        l.setVisible(true);
    }
    class WindowAdapter1 extends WindowAdapter
    {
        public void windowClosing(WindowEvent we)
        {
            System.exit(0);
        }
    }
}
```



INTEGER DIVISION OF TWO NUMBERS

Number 1

Number 2

DIVIDE

RESULT