

Divyashree.A

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18M19CS054

Lab 10 WAP that creates a user interface to perform the integer division. The user enters two nos. in the text field when 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 are not an integer, the program would throw a NumberFormatException. If Num2 are zero, the program would throw an ArithmeticException. Display the exception in a message dialog box.

```
import java.awt.*;
import java.awt.event.*;
public class Division extends Frame
implements ActionListener {
    String msg;
    TextField num1, num2, res;
    Label L1, L2, L3;
    Button div;
    public Division () {
        setLayout ( new FlowLayout () );
        L1 = new
        Label ("Division", Label.RIGHT);
        L2 = new Label ("Divisor", Label.RIGHT);
        L3 = new Label ("Result", Label.RIGHT);
        num1 = new TextField (10);
        num2 = new TextField (10);
        res = new TextField (10);
        div = new Button ("DIVIDE");
        add (L1);
        add (num1);
        add (L2);
        add (num2);
```

add(L3)

add(rs)

add(div)

div.add Action listener (this);

add Window listener (new MyWindow
Adapter ());

}

public void

actionPerformed (ActionEvent ae)...

int num1 = 0, num2 = 0;

try {

num1 = Integer.parseInt (this.num1.getText());

num2 = Integer.parseInt (this.num2.getText());

int num3 = num1 / num2

res.setText (String.valueOf (num3));

msg = "Operation Successful";

repaint();

}

catch (NumberFormatException e) {
System.out.println(e);

res.setText("");

msg = "Number Format Exception -
Non-numeric";

repaint();

}

try { if (num2 == 0) throw new
ArithmeticException();

} catch

(ArithmeticException e) {

System.out.println("Can't be divided
by zero 'ee'");

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```
msg = setFont(" ");  
msg = "cant be divided by zero";  
repaint();  
}
```

```
}  
public static void main(String[] args) {  
    Division appwin = new Division();  
    appwin.setSize(new Dimension  
        (280, 180));  
    appwin.setTitle("Division");  
    appwin.setVisible(true);  
}
```

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

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