

File Edit Selection View Go Run Terminal Help

Division.java - java - Visual Studio Code

Division.java × TextCopy.java

Division.java > ...

```
1  /*Write a program that creates a user interface to perform integer divisions. The user enters two
2  numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the
3  Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program
4  would throw a NumberFormatException. If Num2 were Zero, the program would throw an
5  Arithmetic Exception Display the exception in a message dialog box.*/
6  import java.util.*;
7  import java.lang.String;
8  import java.awt.*;
9  import java.awt.event.*;
10 import javax.swing.*;
11 public class Division extends Frame implements ActionListener{
12     TextField n1,n2,res;
13     Label l1,l2,lres;
14     Button b;
15     public Division(){
16         setLayout(new FlowLayout());
17         Label l1=new Label("NUM1",Label.RIGHT);
18         Label l2=new Label("NUM2",Label.RIGHT);
19         Label lres=new Label("RESULT",Label.RIGHT);
20         n1=new TextField(12);
21         n2=new TextField(8);
22         res=new TextField(10);
23         b=new Button("DIVIDE");
24         add(l1);
25         add(n1);
26         add(l2);
27         add(n2);
28         add(b);
29         add(lres);
30         add(res);
31         b.addActionListener(this);
32         addWindowListener(new MyWindowAdapter());
33     }
34     public void actionPerformed(ActionEvent ae)
35     {
36         if(ae.getSource()==b)
37         {
38             try{
39                 int num1=Integer.parseInt(n1.getText());
40                 int num2=Integer.parseInt(n2.getText());
41                 int num3=num1/num2;
42                 res.setText(String.valueOf(num3));
43             }catch(NumberFormatException ne ){
44                 JOptionPane.showMessageDialog(this,ne,"ERROR", JOptionPane.ERROR_MESSAGE);
45             }
46             catch(ArithmeticException a){
```

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Division.java x TextCopy.java

Division.java > ...

```
25     add(n1);
26     add(12);
27     add(n2);
28     add(b);
29     add(lres);
30     add(res);
31     b.addActionListener(this);
32     addWindowListener(new MyWindowAdapter());
33 }
34 public void actionPerformed(ActionEvent ae)
35 {
36     if(ae.getSource()==b)
37     {
38         try{
39             int num1=Integer.parseInt(n1.getText());
40             int num2=Integer.parseInt(n2.getText());
41             int num3=num1/num2;
42             res.setText(String.valueOf(num3));
43         }catch(NumberFormatException ne ){
44             JOptionPane.showMessageDialog(this,ne,"ERROR", JOptionPane.ERROR_MESSAGE);
45         }
46         catch(ArithmeticException a){
47             JOptionPane.showMessageDialog(this,a,"ERROR", JOptionPane.ERROR_MESSAGE);
48         }
49     }
50 }
Run | Debug
51 public static void main(String args[])
52 {
53     Division i=new Division();
54     i.setSize(new Dimension(400,400));
55     i.setTitle("INTEGER DIVISION OF TWO NUMBERS");
56     i.setVisible(true);
57 }
58
59 class MyWindowAdapter extends WindowAdapter{
60     public void windowClosing(WindowEvent we)
61     {
62         System.exit(0);
63     }
64 }
65 }
```

Ln 6, Col 20 Spaces: 4 UTF-8 CRLF Java JavaSE-15

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File Edit Selection View Go Run Terminal Help

Division.java × TextCopy.java

Division.java > ...  
6 import java.util.\*;  
7 import java.lang.String;  
8 import java.awt.\*;  
9 import java.awt.event.\*;  
10 import javax.swing.\*;  
11 public class Division extends Frame implements ActionListener{  
12 TextField n1,n2,res;  
13 Label l1,l2,lres;  
14 Button b;  
15 public Division(){  
16 setLayout(new FlowLayout());  
17 }  
18 public void actionPerformed(ActionEvent e){  
19 if(e.getSource()==b){  
20 int n1=Integer.parseInt(n1.getText());  
21 int n2=Integer.parseInt(n2.getText());  
22 int res=n1/n2;  
23 lres.setText("Result: "+res);  
24 }  
25 }  
26 }

PROBLEMS 104 OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS C:\Users\Harshita\Desktop\java> javac Division.java  
PS C:\Users\Harshita\Desktop\java> java Division  
[ ]

INTEGER DIVISION OF TWO NUMBERS

NUM1 225 NUM2 5

DIVIDE RESULT 45

1: java

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✖ Build failed, do you want to continue?

Source: Debugger for Java (Extension)

Proceed Fix... Cancel

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Visual Studio Code interface showing a Java program for integer division and an error message.

**Division.java**

```
6 import java.util.*;
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11 public class Division extends Frame implements ActionListener{
12     TextField n1,n2,res;
13     Label l1,l2,lres;
14     Button b;
15     public Division(){
16         setLayout(new FlowLayout());
```

**Terminal Output:**

```
PS C:\Users\Harshita\Desktop\java> javac Division.java
PS C:\Users\Harshita\Desktop\java> java Division
PS C:\Users\Harshita\Desktop\java> java Division
```

**Integer Division of Two Numbers Dialog:**

NUM1: 2.1 NUM2: 2

DIVIDE RESULT

**Error Message:**

ERROR

java.lang.NumberFormatException: For input string: "2.1"

OK

**Build Failed Notification:**

Build failed, do you want to continue?

Source: Debugger for Java (Extension)

Proceed Fix... Cancel

Ln 6, Col 20 Spaces: 4 UTF-8 CRLF Java JavaSE-15

00:22 24-12-2020

