

Lab (10) - 20/2/2024

Q 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 text field when the divide button is clicked. If num1 or num2 were not an integer, the program would throw a NumberFormatException. If num2 was zero, the program would throw an ArithmeticException. Display the exceptions in a message dialog box.

Source Code:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class StringDemo {
    StringDemo() {
        JFrame jfrm = new JFrame("Divider App");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        JLabel lbl = new JLabel("Enter the  
divisor and dividend.");
        JTextField txtf = new JTextField(10);
        JTextField txtf2 = new JTextField(10);
        JButton btnDiv = new JButton("Divide");
        JLabel err = new JLabel("");
        JLabel lbl2 = new JLabel("");
        JLabel lbl3 = new JLabel("");
        JLabel lbl4 = new JLabel("");
        jfrm.add(err);
    }
}
```

```

jform.add(jlab);
jform.add(jt1);
jform.add(bt1);
jform.add(button);
jform.add(alab);
jform.add(blab);
jform.add(anolab);

```

```

ActionListener i = new ActionListener() {
    public void actionPerformed(
        | ActionEvent evt) {
        System.out.println("Action
        event from a text field");
    }
}

```

```

j;
ajtf.add(ActionListener i);
bjtf.add(ActionListener i);
button.add(ActionListener (new ActionListener() {
    public void actionPerformed(
        | ActionEvent evt) {
        try {

```

```

int a; Integer.parseInt
| Integer.parseInt(jt1.getText());
int b; Integer.parseInt
| Integer.parseInt(jt2.getText());
int ans = a/b;
alab.setText("a/b=" + a);
blab.setText("b=" + b);
anolab.setText("ans=" + ans);

```

```

}
main (NumberFormat formatter) {
    rlab.setText("");
    blab.setText("");
    anolab.setText("");
}

```

ex. 8.12 | "B should
be non zero" |

gammal variable (trou)

g) public Antik von main (Stange von [])
 Singletons: make into (new Runnable A)
 public void run() {
 new Singletons();

Out post:

☐ Dinner App - ☐ X

Enter the dinner and drink

56	32
Calorie	D=56 B=32 Am=1

Divides App

-

X

~~Enter~~ Enter only integers

Enter the divider and dividend:

abc

def

Calculate

Divides App

-

X

Dividend by non zero

Enter the divider and dividend

25

0

Calculate

Pr
20/2/2024