27/lu/24

Lab Program -9

Q) WAP that creates a user interface to perform integer divisions. The user ~~it~~ enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed ~~on~~ in the result field when the divide button is clicked. If Num1 or Num2 were not an integer, the program would throw ~~a~~ a Number Format Exception. If Num2 ~~it~~ were zero, the program would throw an Arithmetic Exception Display ~~the code~~ in a message dialog box.

Output

Enter the divider and dividend:

8	2

Calculate	A=8 B=2 Ans=4

B should be NON zero!

Enter the divider~~and~~ and dividend:

8	0

Calculate

Enter Only Integers!

Enter the divider and dividend:

8.2	2

Calculate

Lab Program-9

Source Code

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class SwingDemo {
    SwingDemo() {
        JFrame jfrm = new JFrame("Divider App");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        JLabel jlab = new JLabel("Enter the divider and divident:");
        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);
        JButton button = new JButton("Calculate");
        JLabel err = new JLabel();
        JLabel alab = new JLabel();
        JLabel blab = new JLabel();
        JLabel anslab = new JLabel();
        jfrm.add(err);
        jfrm.add(jlab);
        jfrm.add(ajtf);
        jfrm.add(bjtf);
        jfrm.add(button);
        jfrm.add(aralab);
        jfrm.add(blab);
        jfrm.add(anslab);
        ActionListener l = new ActionListener() {
            public void actionPerformed(ActionEvent evt) {
                System.out.println("Action event from a test field");
            }
        };
```

```
ajtf.addActionListener(d);
bjtf.addActionListener(d);
button.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent evt){
        try {
            int a = Integer.parseInt(ajtf.getText());
            int b = Integer.parseInt(bjtf.getText());
            int ans = a/b;
            alab.setText("In A = " + a);
            blab.setText("In B = " + b);
            anslab.setText("In Ans = " + ans);
        }
        catch (NumberFormatException e){
            alab.setText(" ");
            blab.setText(" ");
            anslab.setText(" ");
            err.setText("Enter Only Integers!");
        }
        catch (ArithmeticException e){
            alab.setText(" ");
            blab.setText(" ");
            anslab.setText(" ");
            err.setText(" B should be NON zero!");
        }
    }
});
    frm.setVisible(true);
}

public static void main(String args[]){
    System.out.println("USN: IBM23CS003 In Name: Aaron B Ajay");
    SwingUtilities.invokeLater(new Runnable(){
        public void run(){
```

```
        new SwingDemo();
    }
  });
 }
}
```