LAB-9

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09) Write a JAVA prog that creates user interface to perform integer divisions. User enter two numbers in text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in result field. when division button clicked. If Num1 & 2 not were an integer, the program would throw NumberFormatException. If Num2 were 0, the program throw ArithmeticException display the exception in message dialog box.

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

class SwingDemo {
    SwingDemo() {
        JFrame jfrm = new JFrame("Divide app");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperation
                (JFrame.EXIT_ON_CLOSE);
        JLabel jlab = new JLabel("Enter
                dividee 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();
```

```
jfm.add(ese);
jfm.add(jlab);
jfm.add(ajtf);
jfm.add(bjtf);
jfm.add(button);
jfm.add(alab);
jfm.add(blab);
jfm.add(anslab);
ActionListener l = new ActionListener(){
        public void actionPerformed(ActionEvent
                                    evt)
        {
          System.out.println("Action event
          from text field");
        }
    };
    ajtf.addActionListener(l);
    bjtf.addActionListener(l);
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("");
        ui.setText("Enter only Integer");
    }
    catch(ArithmeticException e){
        alab.setText("");
        blab.setText("");
        anslab.setText("");
        ui.setText("B should be non zero");
    }
}
});
    jfm.setVisible(true);
}
public static void main(String args[]){
    SwingUtilities.invokeLater(new Runnable(){
        public void run(){
            new SwingDemo();
        }
    });
}
}
```

Output:

Enter the divider and divident

10 2

Calculate A = 10 B = 2 Ans = 5