

LAB-9

Q)

WAP that creates a user interface to perform integer division. The user enters 2 nos in the text fields, Num1 & Num2.

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

```
class SwingDemo
{
    SwingDemo()
    {
        JFrame jfrm = new JFrame("Divisor App");
        jfrm.setSize(275, 150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
        JLabel jlab = new JLabel("Enter the divisor & dividend:");
```

```
        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);
```

```
        JButton button = new JButton("Calculate");
        JLabel en = new JLabel();
        JLabel alab = new JLabel();
        JLabel blab = new JLabel();
        JLabel anslab = new JLabel();
```

```
jfrm.add(en);
jfrm.add(jlab);
jfrm.add(ajtf);
jfrm.add(bjtf);
jfrm.add(button);
jfrm.add(alab);
jfrm.add(blab);
```

```
ActionListener l = new ActionListener()
{
    public void actionPerformed(ActionEvent evt)
    {
        System.out.println("Action event from a 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);
        } catch (NumberFormatException e)
        {
            alab.setText("");
            blab.setText("");
            anslab.setText("");
```

```
        } catch (ArithmeticException e) {
            alab.setText("");
            blab.setText("");
            anslab.setText("");
            en.setText("B should be non zero");
        }
    }
}
```



5);

jfm.setVisible(true);

}

public static void main (String arg[])

{  
SwingUtilities.invokeLater(new Runnable(){  
public void run() {  
new SwingDemo();  
}});  
}output:-

Enter the divider and dividend :

10

2

calculate  $A=10$  &  $B=2$  Ans = 5

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