

20/02/24

Lab - 9: Create a user interface to perform Integer div.

```
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 the dividend &  
divisor");
```

```
        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(alab);
```

```
        jfrm.add(blab);
```

```
        jfrm.add(ansLab);
```

```

Action listener 2 = new ActionListener() {
    public void actionPerformed(ActionEvent evt) {
        System.out.println("Action event from a text
        field");
    }
}

```

```

j;
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("\n A = " + a);
            blab.setText("\n B = " + b);
            anslab.setText("\n 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!");

```

```

        }

```

```

}

```

```
jframe.setVisible(true);  
}
```

```
public static void main (String args []) {  
    SwingUtilities.invokeLater (new Runnable () {  
        public void run() {  
            new SwingDemo ();  
        }  
    })  
}
```

```
}  
}
```

```
}  
}
```

Output:-

Enter the dividend & divider:

200

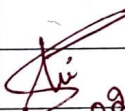
2

Calculate

A = 200

B = 2

Ans = 100

  
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