

17/12/20 Lab 10

IBM19CS006

```
import java.awt.*;  
import java.event.*;  
public class Division extends Frame implements  
    ActionListener {  
    String msg;  
    TextField num1, num2, res;  
    Label l1, l2, l3;  
    Button div;
```

```
    public Division() {  
        setLayout(new FlowLayout());  
        l1 = new Label("Dividend", Label.RIGHT);  
        l2 = new Label("Divisor", Label.RIGHT);  
        l3 = new Label("Result", Label.RIGHT);  
        num1 = new TextField(10);  
        num2 = new TextField(10);  
        res = new TextField(10);  
        div = new Button("DIVIDE");  
        add(l1);  
        add(num1);  
        add(l2); add(num2);  
        add(l3); add(res);  
        add(div);  
        div.addActionListener(this);  
        addWindowListener(new MyWindowAdapter());  
    }
```



```

public void actionPerformed(ActionEvent ae) {
    int num1=0, num2=0;
    try {
        num1=Integer.parseInt(this.num1.getText());
        num2=Integer.parseInt(this.num2.getText());
        int num3=num1/num2;
        res.setText(String.valueOf(num3));
        msg="Operation Successful";
        repaint();
    } catch (NumberFormatException e) {
        System.out.println(e);
        res.setText("");
        msg="NumberFormatException";
        repaint();
    }
    try { if (num2==0)
        throw new ArithmeticException();
    } catch catch (ArithmeticException e) {
        System.out.println("Can't be divided by zero",+e);
        res.setText("");
        msg="Can't be divided by zero";
        repaint();
    }
}

public void paint(Graphics g) {
    g.drawString(msg, 80, 100);
}

```


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```
public static void main (String args[]) {  
    Division appwin = new Division ();  
    appwin.setSize (new Dimension Dimension (480, 280));  
    appwin.setTitle ("Division");  
    appwin.setVisible (true);  
}
```

```
class MyWindowAdapter extends WindowAdapter {  
    public void windowClosing (WindowEvent we)  
    {  
        System.exit (0);  
    }  
}
```