

23/1/21

Lab 10 - Program

```
import java.awt.*;  
import java.awt.event.*;  
  
public class Lab10 extends Frame implements  
    ActionListener {  
    TextField t1, t2;  
    String msg = "";  
    Button btn;  
    Lab10 () {  
        Label l1 = new Label ("First number :", Label.RIGHT);  
        t1 = new TextField(10);  
        Label l2 = new Label ("Second number :", Label.RIGHT);  
        t2 = new TextField(10);  
        btn = new Button ("Submit");  
  
        l1.setBackground (Color.YELLOW);  
        l2.setBackground (Color.YELLOW);  
        this.add (l1);  
        this.add (t1);  
        this.add (l2);  
        this.add (t2);  
        this.add (btn, BorderLayout.CENTER);  
        this.setVisible (true);  
        this.setSize (600, 300);  
        this.setLayout (new FlowLayout (FlowLayout.  
            CENTER, 20, 10));  
    }  
}
```

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```
btn.addActionListener(this);
addWindowListener (new MyWindow ());
set setBackground (Color.YELLOW);
}
```

```
@Override
public Insets getInsets () {
    return new Insets (50, 10, 10, 20);
}
```

```
@Override
public void actionPerformed (ActionEvent e) {
    String st1 = t1.getText ();
    String st2 = t2.getText ();
    double m1, m2;
    m1 = 0.0;
    m2 = 0.0;
    if (st1.equals ("") || st2.equals ("")) {
        msg = "You cannot leave the text elements blank";
    }
    else {
        try {
            m1 = Double.parseDouble (st1);
            m2 = Double.parseDouble (st2);
            try {
                double res = m1/m2;
                msg = "Result of division : " + res;
            }
        }
    }
}
```



```
catch (NumberFormatException ea) {
    msg = "Enter only numbers and not other
    things";
}
```

```
}
```

```
new MyDialog (this, "Result Dialog", false, msg,
m1, m2);
```

```
}
```

```
public static void main (String args[]) {
    new Lab10();
}
```

```
}
```

```
}
```

class MyDialog extends Dialog implements
ActionListener

```
public MyDialog (Frame owner, String title,
boolean modal, String msg, double m1, double
m2) {
```

```
    super (owner, title, modal);
```

```
    this.setVisible (true);
```

```
    this.setSize (300, 400);
```

```
    this.setLayout (new FlowLayout ());
```

```
    Label l1 = new Label ("Updates on the results:");
```

```
    this.add (l1);
```

```
    this.add (new Label ("First Number: " + m1));
```

```
    this.add (new Label ("Second Number: " + m2));
```

```
    this.add (new Label (msg));
```



```
Button b = new Button ("close"),  
this.add (b);
```

```
b.add ActionListener (this);  
this.add WindowListener (new WindowAdapter() {  
    public void windowClosing (WindowEvent e) {  
        dispose();
```

```
    }  
});  
}
```

@Override

```
public void actionPerformed (ActionEvent e).  
{  
    dispose();  
}  
}
```

```
class MyWindow and extends WindowAdapter {  
    public void windowClosing (WindowEvent e) {  
        System.exit (0);  
    }  
}
```

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