

## Lab Program 10)

15/01/2024

```
import java.awt.*;
```

```
public class AWTPROG extends Frame  
    implements ActionListener {  
    TextField t1, t2;  
    String msg = "";  
    Button btn;
```

```
    AWTPROG {
```

```
        Label l1 = new Label("First  
        Number:", Label.RIGHT);  
        t1 = new TextField(10);  
        Label l2 = new Text 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
```

```
        this.add(btn, BorderLayout.CENTER);  
        this.setVisible(true);  
        this.setSize(600, 300);  
        this.setLayout(new FlowLayout  
        (FlowLayout.CENTER, 20, 10));
```

```
        btn.addActionListener(this);  
        addWindowListener(new MyWindow());
```



```

    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 n1, n2;
    n1 = 0.0;
    n2 = 0.0;

```

```

    if (st1.equals("") || st2.equals("")) {

```

```

        msg = "You cannot leave the text blank";

```

```

    else {
        try { n1 = Double.parseDouble(st1);

```

```

            n2 = Double.parseDouble(st2);

```

```

            try { double res = n1/n2;

```

```

                msg = "Result of division: " + res;
            }

```

```

        catch (ArithmeticException e1) {
            msg = e1.toString();
        }

```

```

        catch (NumberFormatException e2) {
            msg = "Enter Only numbers & not other";
        }
    }
}

```



```
new MyDialog (this, "Result Dialog", false,  
msg, n1, n2);
```

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

```
class MyDialog extends Dialog implements  
ActionListener {
```

```
public MyDialog (Frame owner, String title,  
boolean modal, String msg,  
double n1, double n2) {
```

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

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

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

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

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

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

```
    this.add (new Label ("First Number: +n1"));
```

```
    this.add (new Label ("Second Number: +n2"));
```

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

```
    Button b = new Button ("Close");
```

```
    this.add (b);
```

```
    b.addActionListener (this);
```

```
    this.addWindowListener (new Window  
Adapter () {
```

```
        public void windowClosing (WindowEvent e) {  
            dispose();  
        }  
    });
```



@Override

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

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