

## Lab Program - 10 :

import java.awt.\*;

public class Lab10 extends Frame implements ActionListener {

TextField t1, t2;

String msg = "";

public Lab10() {

Label l1 = new Label("First no. : ");

t1 = new TextField(10);

Label l2 = new Label("Second no. : ");

t2 = new TextField(10);

Button btn = new Button("Divide");

this.add(l1);

this.add(t1);

this.add(l2);

this.add(t2);

this.add(btn);

btn.addActionListener(this);

this.addWindowListener(new MyWindow());

this.setSize(600, 300);

this.setVisible(true);

this.setLayout(new FlowLayout());

}

public void actionPerformed(ActionEvent e) {

String str1 = t1.getText();

String str2 = t2.getText();

double n1 = 0.0, n2 = 0.0;

if (str1.equals("") || str2.equals("")) {

msg = "Textfields cannot be blank";

else {

try {

n1 = Double.parseDouble(str1);

n2 = Double.parseDouble(str2);

try {

double res = n1/n2;

msg = "Result of Division: " + res;

}



```
catch (ArithmeticException e1) {
```

```
    msg = e1.toString();
```

```
}
```

```
} catch (NumberFormatException e2) {
```

```
    msg = "Enter only numbers in field";
```

```
}
```

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

```
}
```

```
public static void main(String[] args) {
```

```
    new Lab10();
```

```
}
```

```
}
```

```
class MyDialog extends Dialog {
```

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

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

```
        this.add(new Label("    Updates on Result    "));
```

```
        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(new WindowAdapter() { this });
```

```
        run  
        this.addWindowListener(new WindowAdapter() {
```

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

```
            }
```

```
        }
```

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

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

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

```
}
```

```
public void actionPerformed(ActionEvent e) {
```

```
    dispose();
```

```
}
```

```
}
```



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