IBM19CS040
Dokhnanthys

Lab Program -10

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

class DivisionInteger extends Frame
        implements ActionListener {
    TextField num1, num2;
    Button calc;
    int a, b;
    float result;
    String msg = " Enter the numbers";
    public DivisionInteger () {
        setLayout ( new FlowLayout ());
        calculate = new Button ( "calculate");
        num1 = new TextField (3);
        num2 = new TextField (5);
        Label num1L = new Label(" Num 1");
        Label new2L = new Label (" Num2");
        add ( num1L);
        aad ( num 1);
        add ( num 2L);
        add ( nam 2);
        add ( cadulate);
        calc. add ActionListener (this);
        addWindowListener ( new MyWindow
                                Adapter ());
```

```java
public void actionPerformed (ActionEvent ae){
    try {
        result = divideNumbers ();
        msg = (" The result is : "+result);
    }
    catch ( NumberFormatException e){
        msg = " Number is not integer "+e;
    } catch ( ArithmeticException e){
        msg = "Divide by zero not
                    Allow "+e;
    } finally {
        MyDialog d = new My Dialog
                        (this, "Dialog Box");
        d.setVisibility (true);
    }
}

public float divideNumbers (){
    a = Integer.parseInt (num1.getText());
    b = Integer.parseInt (num2.getText());
    if ( b == 0){
            throw new ArithmeticException();
    } return (float) a/b;
}

public static void main ( String args[]) {
    DivisionInteger div = new DivisionInteger()
    div.setSize (new Dimension( 1000, 200);
    div.setTitle (" Division Calculator");
    div.setVisibility (true);
}

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

2
```

```java
class MyDialog extends Dialog implements
                              ActionListener {
    DisplayInteger divInt;
    public MyDialog (Frame parent, String title){
        super ( parent, title, false);
        divInt = (DisplayInteger) parent;
        setLayout ( new FlowLayout());
        setSize (500, 100);
        add (new Label( divInt.msg);
        Button ok = new Button ("OK");
        add (ok);
        ok. addActionListener (this);
    }
    public void actionPerformed ( ActionEvent
                                        ae){
        dispose ();
    }
}
```