Lab Program:- Division

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

class SampleDialog extends Dialog implements
ActionListener
{
    DivideAWT bld;
    SampleDialog(Frame parent, String title)
    {
        super(parent, title, false);
        bld = (DivideAWT) parent;
        setLayout(new FlowLayout());
        setSize(500,300);

        Button b;
        add(b = new Button("OK"));
        b.addActionListener(this);
    }

    public void actionPerformed(ActionEvent ae)
    {   dispose();
    }

    public void paint(Graphics g)
    {   Color c = new Color(0,0,0);
        g.setColor(c);
        g.drawString(bld.msg, 5, 50);
    }
}
```

```java
class DivideAWT extends Frame implements
ActionListener
{
    Button b1;
    TextField t1, t2;
    String click ="", msg = "";
    public DivideAWT()
    {   setLayout (new FlowLayout ());
        t1 = new TextField (12);
        add (t1);
        t2 = new Text
        b1 = new Button ("/");
        add (b1);
        t2 = new TextField (12);
        add (t2);
        b1. addActionListener (this);
        addWindowListener (new WindowAdapter());
    }
    public void actionPerformed (ActionEvent ae)
    {   if (ae.getActionCommand ().equals("/"))
        {   click = ae.getActionCommand ();
            repaint ();
        }
    }
}
```

```java
public void paint (Graphics g)
{   int   a,b;
    Color  c =  new   Color(0,0,0);
    Color  redd = new  Color (255,0,0);

    if (t1. getText(). equals ("") || t2.getText().equals
                                    (""))
    {   g.setColor(redd);
        msg =  " Fields cannot be empty";
    }
    else
    {  try
       {
            a =   Integer.parseInt (t1.getText());
            b =   Integer.parseInt (t2.getText());
            int div = a/b;
            if ( click.equals("/"))
            {   g.setColor(c);
                msg = "Result of :" + a +"/"+ b + " =
                       " + div;
            }
       }
       catch (NumberFormatException en1)
       {   msg = "Enter valid nos";
       }
       catch ( ArithmeticException en2)
```

```java
        msg = "Division by zero not possible";
    }
}

    SampleDialog d = new SampleDialog
        (this, "Dialog");
    d.setVisible(true);
}

public static void main(String args[])
{
    DvideAWT t = new DvideAWT();
    t.setSize(new Dimension(1000, 1000));
    t.setTitle("DIVISION OF NUMBERS");
    t.setVisible(true);
}
}

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