LAB PROGRAM – 10

INPUT:

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

class SampleDialog extends Dialog implements ActionListener
{
    Division div;
    SampleDialog(Frame parent, String title)
    {
        super(parent, title, false);
        div=(Division)parent;
        setLayout(new FlowLayout());
        setSize(400, 150);
        add(new Label(div.msg));
        Button b;
        add(b = new Button("OK"));
        b.addActionListener(this);
    }

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


public class Division extends Frame implements ActionListener
{
    String msg = "";
    String msg1 = "";
    TextField n1, n2, res;
    Button b;
    Label result = new Label("Result :", Label.RIGHT);

    public Division()
    {
        setLayout(new FlowLayout());
        Label num1 = new Label("Number 1 : ", Label.RIGHT);
        Label num2 = new Label("Number 2 :", Label.RIGHT);
        Button div = new Button("Divide");
        n1 = new TextField(10);
        n2 = new TextField(10);
        res = new TextField(35);

        add(num1);
        add(n1);
        add(num2);
        add(n2);
        b = (Button)add(div);
        add(result);
        add(res);

        n1.addActionListener(this);
        n2.addActionListener(this);
        b.addActionListener(this);

        addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent we) {
                System.exit(0);
            }
        });
    }

    public static void main(String[] args)
    {
        Division appwin = new Division();
        appwin.setSize(new Dimension(450, 180));
        appwin.setTitle("Integer-Division");
        appwin.setVisible(true);
    }

    public void actionPerformed(ActionEvent ae)
    {
        if(!(n1.getText().equals("")) && !(n2.getText().equals("")))
        {
            try
            {
                msg1 = ""+(Integer.parseInt(n1.getText()) / Integer.parseInt(n2.getText()));
                res.setText(msg1);
            }
            catch(NumberFormatException e)
            {
                msg = "ERROR : Enter ONLY Integers!";
                res.setText("");
                SampleDialog d = new  SampleDialog(this, "ERROR");
                d.setVisible(true);
            }
            catch(ArithmeticException e)
            {
                msg = "ERROR : Divisor CANNOT be ZERO!";
                res.setText("");
```

```java
 91                     SampleDialog d = new  SampleDialog(this, "ERROR");
 92                     d.setVisible(true);
 93                 }
 94             }
 95             else
 96             {
 97                 msg = "ERROR : Number fields should NOT be EMPTY!";
 98                 res.setText("");
 99                 SampleDialog d = new  SampleDialog(this, "ERROR");
100                 d.setVisible(true);
101             }
102         }
103  }
```

OUTPUT: