

LAB PROGRAM 10 Execution:

```
import java.awt.*;

import java.awt.event.*;

class Dialog1 extends Dialog implements ActionListener {

    IntDiv id;

    Dialog1(Frame parent, String title) {

        super(parent, title, false);

        id=(IntDiv)parent;

        setLayout(new FlowLayout());

        setSize(300, 200);

        add(new Label(id.msg));

        Button b;

        add(b = new Button("OK"));

        b.addActionListener(this);

    }

    public void actionPerformed(ActionEvent ae) {

        dispose();

    }

}

public class IntDiv extends Frame implements ActionListener{

    TextField n1,n2,res;

    String msg="";

    Label ln1,ln2,lres;
```

```

Button b;

public IntDiv(){

    setLayout(new FlowLayout());

    Label ln1=new Label("NUMBER 1",Label.RIGHT);

    Label ln2=new Label("NUMBER 2",Label.RIGHT);

    Label lres=new Label("RESULT",Label.RIGHT);

    n1=new TextField(12);

    n2=new TextField(8);

    res=new TextField(10);

    b=new Button("DIVIDE");

    add(ln1);

    add(n1);

    add(ln2);

    add(n2);

    add(b);

    add(lres);

    add(res);

    b.addActionListener(this);

    addWindowListener(new WindowAdapter1());
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==b)
    {
        try{

```

```

        int num1=Integer.parseInt(n1.getText());

        int num2=Integer.parseInt(n2.getText());

        int num3=num1/num2;

        res.setText(String.valueOf(num3));
    }catch(NumberFormatException ne ){

        msg="NumberFormat Exception";

        dia d=new dia(this,"EXCEPTION");

        d.setVisible(true);

    }

    catch(ArithmeticException a){

        msg="Arithmetic Exception";

        Dialog1 d=new Dialog1(this,"EXCEPTION");

        d.setVisible(true);

    }

}

}

}

public static void main(String args[])

{

    IntDiv i=new IntDiv();

    i.setSize(new Dimension(400,400));

    i.setTitle("INTEGER DIVISION OF TWO NUMBERS");

```

```
i.setVisible(true);  
}  
  
class WindowAdapter1 extends WindowAdapter{  
    public void windowClosing(WindowEvent we)  
    {  
        System.exit(0);  
    }  
}  
}
```

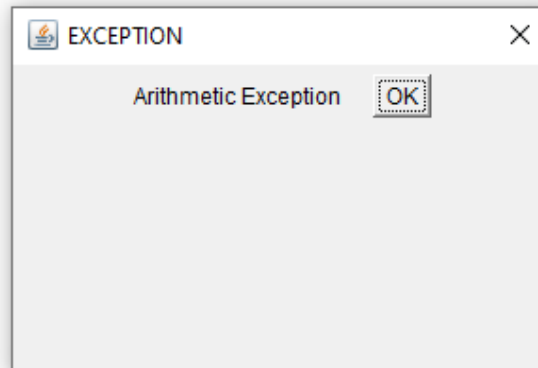
OUTPUT:

1. Normal result

NUMBER 1 NUMBER 2 RESULT

2. Arithmetic Exception

NUMBER 1 NUMBER 2 RESULT



3. NumberFormat Exception

NUMBER 1 NUMBER 2 RESULT

