

```
import java.awt.*;
import java.awt.event.*;
public class oop10 extends Frame implements ActionListener
{
    Button b;
    TextField n1, n2, r;
    String s;
    public oop10()
    {
        setLayout(new FlowLayout());
        b=new Button("Divide");
        Label numb1=new Label("Num1: ",Label.RIGHT);
        n1=new TextField(10);
        add(numb1);
        add(n1);
        Label numb2=new Label("Num2: ",Label.RIGHT);
        n2=new TextField(10);
        add(numb2);
        add(n2);
        Label res=new Label("Result: ",Label.RIGHT);
        r=new TextField(20);
        add(res);
        add(r);
        add(b);
        b.addActionListener(this);
        addWindowListener(new MyWindowAdapter());
    }
}
```

```
public void actionPerformed(ActionEvent ae)
{
    int i=0,j=0;
    try
    {
        i=Integer.parseInt(n1.getText());
        j=Integer.parseInt(n2.getText());
    }
    catch(NumberFormatException e)
    {
        s="Number Format Exception";
        r.setText(" ");
        DialogBox db=new DialogBox(this,"Dialog",s);
        db.setVisible(true);
        return;
    }
    try
    {
        if(j==0)
            throw new ArithmeticException();
        double q=(double)i/j;
        s=Double.toString(q);
        r.setText(s);
    }
    catch(ArithmeticException e)
    {
        s="Arithmetic Exception";
```

```

        r.setText(" ");
        DialogBox db=new DialogBox(this,"Dialog",s);
        db.setVisible(true);
    }
}
public static void main(String args[])
{
    oop10 appwin=new oop10();

    appwin.setSize(new Dimension(380,180));
    appwin.setTitle("Division");
    appwin.setVisible(true);
}
}
class MyWindowAdapter extends WindowAdapter
{
    public void windowClosing(WindowEvent we)
    {
        System.exit(0);
    }
}
class DialogBox extends Dialog
{
    DialogBox(Frame parent, String title, String s)
    {
        super(parent, title, false);
        setLayout(new FlowLayout());
    }
}

```

```
setSize(300,200);
add(new Label(s));
Button b;
add(b=new Button("OK"));
b.addActionListener((ae)->dispose());
addWindowListener(new WindowAdapter(){
    public void windowClosing(WindowEvent we){
        dispose();
    }
});
}
}
```

Division

Num1:  Num2:  Result:

Division

Num1:  Num2:  Result:

Dialog

Number Format Exception

Division

Num1: 10 Num2: 0 Result:

Divide

Dialog

Arithmetic Exception OK