

PROGRAM-10

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

```
public class Main extends Frame implements  
ActionListener {
```

```
String msg = "";
```

```
Button divide;
```

```
TextField n1, n2, res;
```

```
public Main() {
```

```
    setLayout(new FlowLayout());
```

```
    Label num1 = new Label("NUM1: ", Label.RIGHT);
```

```
    Label num2 = new Label("NUM2: ", Label.RIGHT);
```

```
    Label r = new Label("Res: ", Label.RIGHT);
```

```
    n1 = new TextField(20);
```

```
    n2 = new TextField(20);
```

```
    res = new TextField(20);
```

```
    res.setEditable(false);
```

```
add(num1); add(n1);
```

```
add(num1); add(n1);
```

```
add(num2); add(n2);
```

```
add(res);
```

```
add(r); add(res);
```

```
n1.addActionListener(this);
```

```
n2.addActionListener(this);
```

```
Button divide = new Button("divide");
```

```
div = (Button) add(divide);
```

```
div.addActionListener(this);
```

```
addWindowListener(new MyWindowAdapter());  
{
```

```
public void actionPerformed(ActionEvent ae){
```

```
    if(ae.getSource() == div);
```

```
    String a = n1.getText();
```

```
    String b = n2.getText();
```

```
    int i;
```

```
    double ans = 0.00;
```

```
    boolean flag = false;
```

```
    boolean flag1 = false;
```

```
    try{
```

```
        i = Integer.parseInt(a);
```

```
        j = Integer.parseInt(b)
```

```
        if(j == 0.0){ flag1 = true;
```

```
            throw new ArithmeticException
```

```
            ("Division by zero not Possible");
```

```
        }
```

```
        ans = (double)(i/j);
```

```
        catch(E
```

```
    }
```

```
    catch(Exception e){
```

```
        flag = true;
```

```
        msg = flag1 ? e.getMessage() :  
            e.toString();
```

```
        DialogBox d = new DialogBox(this,  
            "ERROR");
```

```
        d.setVisible(true);
```

```
    }
```



```
if(!flag) //No exception
```

```
res.setText(String.valueOf(ans));
```

```
}
```

```
public static void main (String args[]) {
```

```
    Main main = new Main();
```

```
    main.setSize(new Dimension(250, 180));
```

```
    main.setTitle("Divide");
```

```
    main.setVisible(true);
```

```
}
```

```
}
```

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

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

```
class Dialog
```

```
public class DialogBox extends Dialog implements  
ActionListener {
```

```
    Main bld;
```

```
public DialogBox(Frame Parent, String title) {
```

```
    Super(Parent, this, false);
```

```
    bld = (Main) Parent;
```

```
    setLayoutsetLayout(new FlowLayout());
```

```
    setSize(600, 100);
```

```
    add(new Label(bld.msg));
```

```
    Button b;
```

```
    add(b = new Button("Close"));
```

```
    b.addActionListener(this);
```

```
addWindowListener(new WindowAdapter(){  
    public void windowClosing(WindowEvent ae)  
    {  
        dispose();  
    }  
});  
}
```

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

```
class MyWindowAdapter extends  
WindowAdapter {  
    public void windowClosing(WindowEvent we) {  
        System.out.println("Closed");  
    }  
}
```