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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();
    }

```

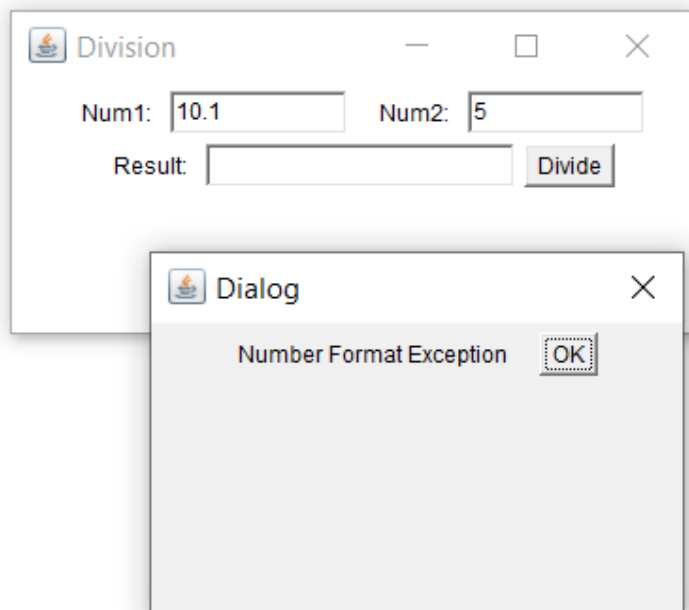
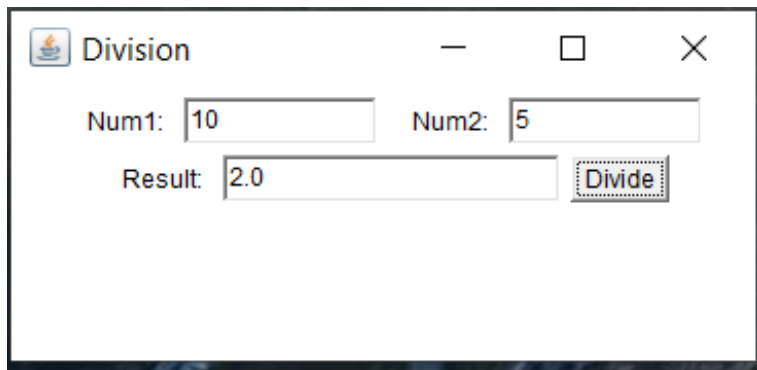
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        appwin.setSize(new Dimension(380,180));
        appwin.setTitle("Division");
        appwin.setVisible(true);
    }
}

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:

Dialog

Number Format Exception

Division

Num1: Num2:

Result:

Dialog

Arithmetic Exception