Program: Division of numbers. Catch: NumberFormatException and ArithmeticException.
Display appropriate messages in a dialog box.
Code:

```java
import java.awt.event.*;
import java.awt.*;
class SampleDialog extends Dialog implements ActionListener
{
        DvideAWT bld;
        SampleDialog(Frame parent, String title)
        {
                super(parent, title, false);
                bld=(DvideAWT)parent;
                setLayout(new FlowLayout());
                setSize(500, 300);

                Button b;
                add(b = new Button("OK"));
                b.addActionListener(this);

        }
        public void actionPerformed(ActionEvent ae)
        {
                dispose();
        }
        public void paint(Graphics g)
        {
          Color c = new Color(0,0,0);
          g.setColor(c);
          g.drawString(bld.msg, 5, 50);
        }
}

class DvideAWT extends Frame implements ActionListener
{

   Button b1;
   TextField t1, t2;

    String click="",msg="";

   public DvideAWT()
   {
     setLayout(new FlowLayout());
             t1 = new TextField(12);
     add(t1);
     b1 = new Button("/");
     add(b1);
             t2 = new TextField(12);
     add(t2);
             b1.addActionListener(this);
             addWindowListener(new MyWindowAdapter());
        }
   public void actionPerformed(ActionEvent ae)
   {
```

```java
        if(ae.getActionCommand().equals("/"))
        {
                click = ae.getActionCommand();
                repaint();
        }

}
public void paint(Graphics g)
{
        int a,b;
        //Color c = new Color(0,0,0);
        //Color redd = new Color(255,0,0);

        if(t1.getText().equals("")||t2.getText().equals(""))
        {
                //g.setColor(redd);
                msg = "Fields cannot be empty" ;

        }
        else
        {



                try
                {
                        a = Integer.parseInt(t1.getText());
                b = Integer.parseInt(t2.getText());
                        int div = a/b;
                        if(click.equals("/"))
                        {
                                //g.setColor(c);
                                msg = "Result of :"+a+"/"+b+" = "+div;

                        }
                }
                catch(NumberFormatException ex1)
                {
                        //g.setColor(redd);
                        msg = "Enter valid nos";

                }

                catch(ArithmeticException ex2)
                {
                        //g.setColor(redd);
                        msg = "Division by zero not possible";

                }

        }
                SampleDialog d = new SampleDialog(this, "Dialog");

                d.setVisible(true);
}
```

```java
    public static void main(String args[])
    {
        DvideAWT t = new DvideAWT();
                t.setSize(new Dimension(1000, 1000));
                t.setTitle("DIVISION OF NUMBERS");
                t.setVisible(true);
        }
}
class MyWindowAdapter extends WindowAdapter
{
        public void windowClosing(WindowEvent we)
        {
                System.exit(0);
        }
}
```

OUTPUT:

DvideAWT

DIVISION OF NUMBERS

| 12 | / | 6 |

DvideAWT

Dialog

Result of :12/6 = 2   OK