1BM19CS073
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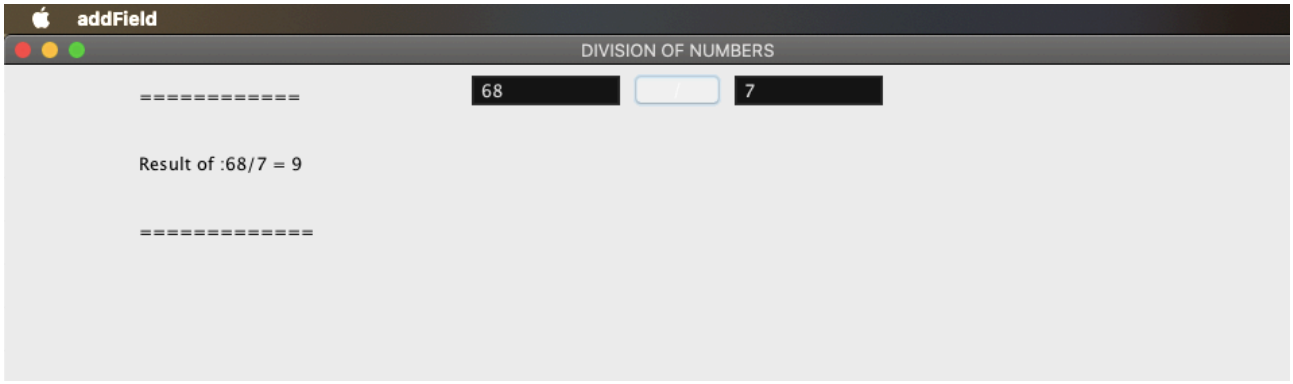
Program: Division of two numbers in a window. Catch : NumberFormatException and ArithmeticException

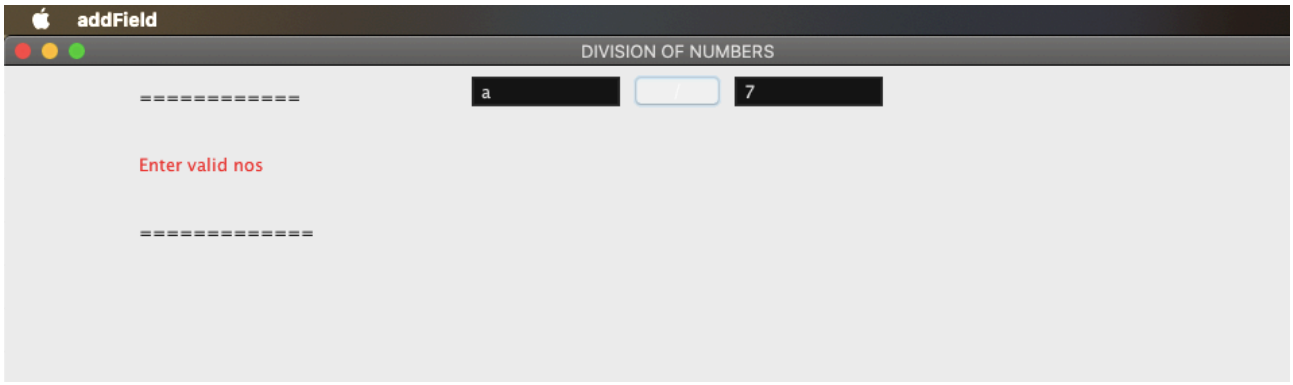
Code:

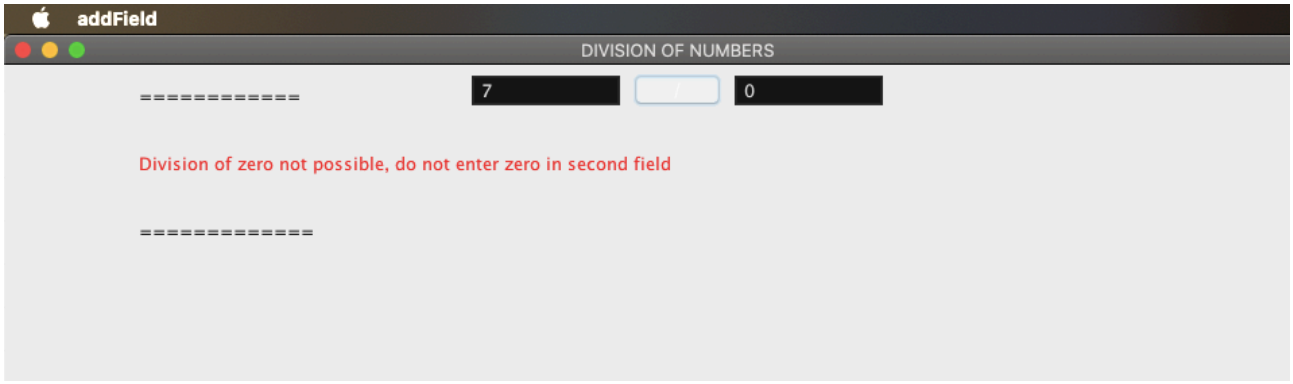
```
import java.awt.event.*;
import java.awt.*;

class addField extends Frame implements ActionListener
{

   Button b1;
   TextField t1, t2;

    String click="";

   public addField()
   {
      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)
   {
                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);
                g.setColor(c);
                g.drawString("============",100,50);
                if(t1.getText().equals("")||t2.getText().equals(""))
                {
                        g.setColor(redd);
                        g.drawString("Fields cannot be empty",100,100);
                        g.setColor(c);
                        g.drawString("============",100,150);
                }
                else
                {
```

```
                        try
                        {
                                a = Integer.parseInt(t1.getText());
                        b = Integer.parseInt(t2.getText());
                                int div = a/b;
                                if(click.equals("/"))
                                {
                                        g.setColor(c);
                                        g.drawString("Result of :"+a+"/"+b+" = "+div,100,100);
                                        g.drawString("==============",100,150);
                                }
                        }
                        catch(NumberFormatException ex1)
                        {
                                g.setColor(redd);
                                g.drawString("Enter valid nos",100,100);
                                g.setColor(c);
                                g.drawString("==============",100,150);
                        }

                        catch(ArithmeticException ex2)
                        {
                                g.setColor(redd);
                                g.drawString("Division of zero not possible, do not enter zero in
second field",100,100);
                                g.setColor(c);
                                g.drawString("==============",100,150);
                        }
                }
        }


   public static void main(String args[])
   {
      addField t = new addField();
                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:


addField
DIVISION OF NUMBERS
68
/
7
Result of :68/7 = 9


addField
DIVISION OF NUMBERS
a
/
7
Enter valid nos


addField
DIVISION OF NUMBERS
7
/
0
Division of zero not possible, do not enter zero in second field