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1BM19CS078
WEEK 12 LAB -PROGRAM

```
import java.awt.*;

import java.awt.event.*;



public class Divisions extends Frame implements ActionListener

{

        Dialog d;
        TextField Num1,Num2,result;
        Button Divide;
        public Divisions()

        {

                setLayout(new FlowLayout());
                setSize(500,500);
                Num1=new TextField(10);
                Num2=new TextField(10);
                result=new TextField(10);
                Divide=new Button("DIVIDE ");
                add(new Label("Enter 1st number : "));
                add(Num1);
                add(new Label("Enter 2nd nummber: "));
                add(Num2);
                add(new Label("Result  : "));
                add(result);
                add(Divide);
                Divide.addActionListener(this);
                setVisible(true);
               addWindowListener(new MyWindowAdapter());
        }

        public void actionPerformed(ActionEvent ae)

        {
```

```
            if(ae.getSource()==Divide)
            {   try
                {
result.setText(Integer.toString((Integer.parseInt(Num1.getText().trim()))/(Integer.parseInt(Num2.
getText().trim()))));
                 }
                    catch(ArithmeticException aex)
                    { Dia d1=new Dia("Arithmetic Exception");
                      d1.setVisible(true);
                    }
                    catch(NumberFormatException nfe)
                    {
                            Dia d2=new Dia("Number Format Exception ");
                            d2.setVisible(true);
                    }
            }
        }
        public static void main(String args[])
        {
            new Divisions();
        }
}
class Dia extends Dialog implements ActionListener
```

```
{
Button ok;
 Dia(String str)

        {

            super(new Frame(),str,true);

                ok=new Button("OK");

                setLayout(new FlowLayout());

                setSize(300,200);
                add(ok);
               ok.addActionListener(this);
               addWindowListener(new MyWindowAdapter());
        }

        public void actionPerformed(ActionEvent ae)

        {

                setVisible(true);

        }


class  MyWindowAdapter extends WindowAdapter{
public void windowClosing(WindowEvent we)
{

System.exit(0);

}
}

}
```


Arithmetic Exception
OK
Enter 1st number :
50
Enter 2nd number :
0
Result :
10
DIVIDE


Number Format Exception
OK
Enter 1st number :
10
Enter 2nd number :
a
Result :
DIVIDE

Enter 1st number :
50
Enter 2nd number :
5
Result :
10
DIVIDE