```
import java.awt.*;
import java.awt.event.*;
class DivisionMain1 extends Frame implements ActionListener{
   TextField num1,num2;
   Button dResult;
   Label outResult;
   String out="";
   double resultNum;
   int flag=0;
   public DivisionMain1(){
        setLayout(new FlowLayout());
        dResult = new Button("Result:");
        Label number1 = new Label("Number 1:",Label.RIGHT);
        Label number2 = new Label("Number 2:",Label.RIGHT);
        num1=new TextField(5);
        num2=new TextField(5);
        outResult = new Label("",Label.RIGHT);
        add(number1);
        add(num1);
        add(number2);
        add(num2);
        add(dResult);
        add(outResult);
        num1.addActionListener(this);
        num2.addActionListener(this);
        dResult.addActionListener(this);
        addWindowListener(new WindowAdapter(){
                public void windowClosing(WindowEvent e){
                        System.exit(0);
                }
        });
}
        public void actionPerformed(ActionEvent e){
```

```
        public void actionPerformed(ActionEvent e){
                int n1,n2;
                try{
                   if (e.getSource() == dResult){
                      n1=Integer.parseInt(num1.getText());
                      n2=Integer.parseInt(num2.getText());
                       if(n2==0){
                         throw new ArithmeticException();
                       }
                        out=n1+"/"+n2+" ";
                        resultNum=n1/n2;
                        out+=resultNum;
                    }
                }
                catch(NumberFormatException e1){
                        flag=1;
                        out="Number Format Exception!"+e1;
                }
                catch(ArithmeticException e1){
                        flag=1;
                        out="Divide by 0 Exception!"+e1;
                }
                outResult.setText(out);
                invalidate();
                validate();
        }

}

public class Main{
        public static void main(String args[]){
                DivisionMain1 obj=new DivisionMain1();
                obj.setSize(new Dimension(800,400));
                obj.setTitle("DivisionOfIntegers");
```

```
                try{
                   if (e.getSource() == dResult){
                      n1=Integer.parseInt(num1.getText());
                      n2=Integer.parseInt(num2.getText());
                       if(n2==0){
                         throw new ArithmeticException();
                       }
                        out=n1+"/"+n2+" ";
                        resultNum=n1/n2;
                        out+=resultNum;
                    }
                }
                catch(NumberFormatException e1){
                        flag=1;
                        out="Number Format Exception!"+e1;
                }
                catch(ArithmeticException e1){
                        flag=1;
                        out="Divide by 0 Exception!"+e1;
                }
                outResult.setText(out);
                invalidate();
                validate();
        }

}

public class Main{
        public static void main(String args[]){
                DivisionMain1 obj=new DivisionMain1();
                obj.setSize(new Dimension(800,400));
                obj.setTitle("DivisionOfIntegers");
                obj.setVisible(true);
        }
}
```

Ln 63, Col 40 | 1623 characters

Number 1: 20 Number 2: 60 RESULT Result: 20 / 60 = 0.3333333333333333

culator

Number 1: 20 Number 2: 0 RESULT Result:

Arithmetic Error: Divide by zero!

lab - 9

WAP that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 & Num2. The division of Num1 & Num2 is displayed in the Result field when the divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a NumberFormatException. If num2 were zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog Box.

```
import java.awt.*;
import java.awt.event.*;
class DivisionMain1 extends Frame implements
    Action Listener {
    ~~Textf~~ TextField num1, num2;
     Button dResult;
     label outResult;
     String out = "";
     double resultNum;
     int flag = 0;
     public DivisionMain1(){
      setLayout(new FlowLayout());
      dResult = new Button("Result:");
      label number1 = new label("Number1:",
                                label.RIGHT);
     Label("Number 2:", label.RIGHT);
     num1 = new Textfield(5);
     num 2 = new Textfield(5);
     outResult = new label("", label.RIGHT);
     add(number1);
     add(num1);
     add(number2);
```

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```
        add(num2);
        add(dResult);
        add(outResult);
        num1.addActionListener(this);
        num2.addActionListener(this);
        addWindowListner(new WindowAdapter(){
          public void windowClosing(WindowEvent e){
            System.exit(0);
          }
        });
    }
    public void actionPerformed(ActionEvent e){
      int n1,n2;
      try{
        if(e.getSource() == dResult){
          n1 = Integer.parseInt(num1.getText());
          n2 = Integer.parseInt(num2.getText());
            if(n2==0){
              throw new ArithmeticException();
            }
          out = n1 +"/" + n2 + " ";
          resultNum = n1/n2;
          out += resultNum;
        }
      }
      catch(NumberFormatException e1){
        flag=1;
        out = "Number Format Exception!"+e1;
      }
      catch(ArithmeticException e1){
        flag=1;
        out = "Divide by 0 Exception!"+e1;
      }
```

```
        outResult.setText(out);
        invalidate();
        validate();
    }
}

Public class Main{
 Public static void main(String args[]){
  DivisionMain1 obj = new DivisionMain1();
   obj.setSize(new Dimension(800,400));
   obj.setTitle("Division Of Integers");
   obj.setVisible(true);
  }
}
```

o/p : num1 = 10
num2 = 5
10/5 = 2

num1 = 10
num2 = 0
Divided by 0 Exception.