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#### LAB PROGRAM-10

Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and 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.

#### CODE:

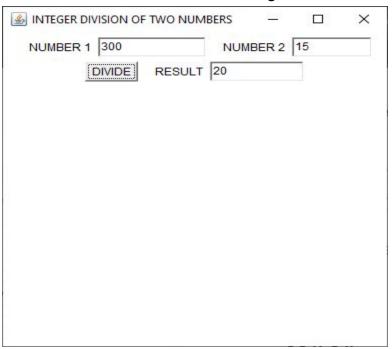
```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
class integerdivision extends Frame implements ActionListener{
  TextField n1,n2,res;
  Label In1,In2,Ires;
  Button b:
  public integerdivision(){
    setLayout(new FlowLayout());
    Label In1=new Label("NUMBER 1",Label.RIGHT);
    Label In2=new Label("NUMBER 2",Label.RIGHT);
    Label Ires=new Label("RESULT", Label.RIGHT);
    n1=new TextField(12);
    n2=new TextField(8);
    res=new TextField(10);
    b=new Button("DIVIDE");
    add(ln1);
    add(n1);
    add(ln2);
    add(n2);
    add(b);
    add(Ires);
    add(res);
    b.addActionListener(this);
 addWindowListener(new WindowAdapter1());
public void actionPerformed(ActionEvent ae)
  if(ae.getSource()==b)
  {
    try{
    int num1=Integer.parseInt(n1.getText());
```

```
int num2=Integer.parseInt(n2.getText());
    int num3=num1/num2;
    res.setText(String.valueOf(num3));
  }catch(NumberFormatException ne ){
    JOptionPane.showMessageDialog(this,ne,"ERROR", JOptionPane.ERROR_MESSAGE);
  }
  catch(ArithmeticException a){
    JOptionPane.showMessageDialog(this,a,"ERROR", JOptionPane.ERROR_MESSAGE);
  }
}
public static void main(String args[])
  integerdivision i=new integerdivision();
  i.setSize(new Dimension(400,400));
  i.setTitle("INTEGER DIVISION OF TWO NUMBERS");
  i.setVisible(true);
}
class WindowAdapter1 extends WindowAdapter{
   public void windowClosing(WindowEvent we)
  {
     System.exit(0);
  }
}
}
```

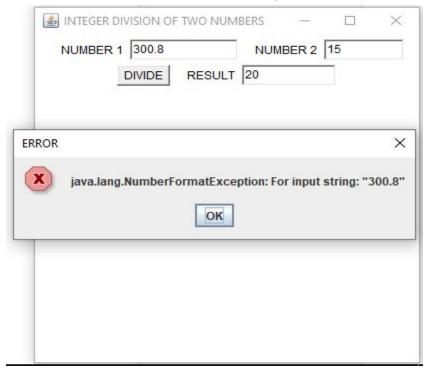
### **OUTPUT:**

D:\Kusum\III SEMESTER\OOJ2020>javac lab10.java
D:\Kusum\III SEMESTER\OOJ2020>java integerdivision

### CASE 1:Both Num1 and Num2 are integers



# CASE 2:If Num1, Num2 is/are decimal type



## CASE 3:If Num2 is zero

