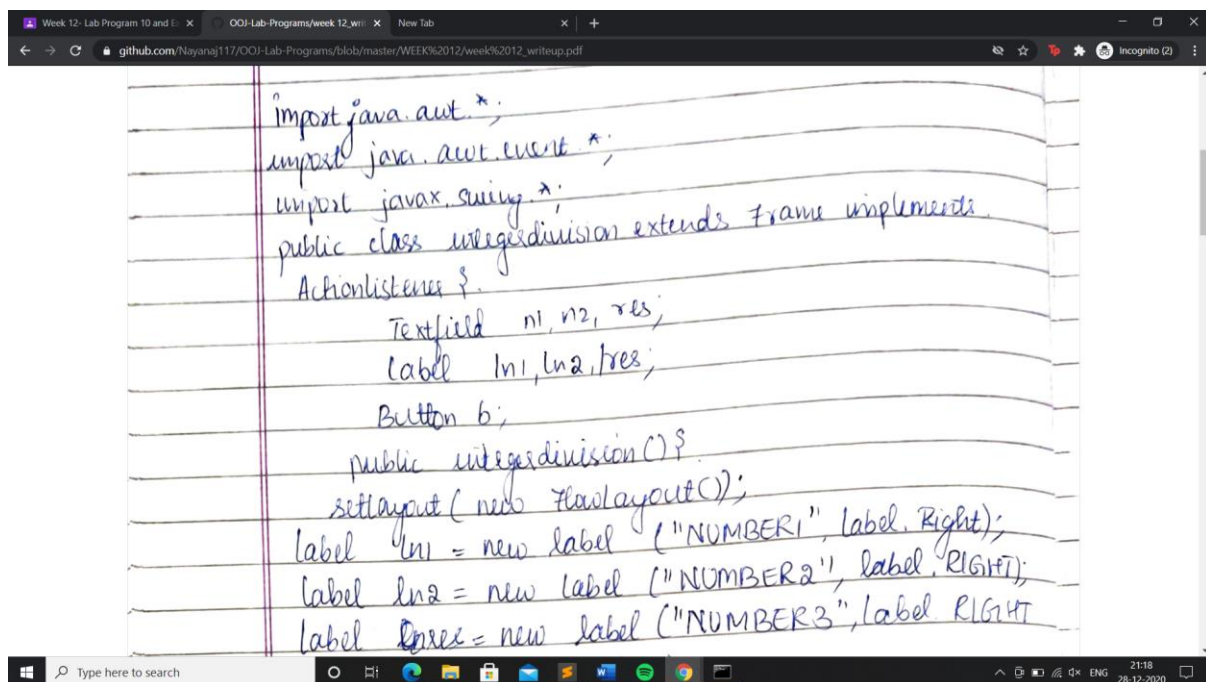


LAB PROGRAM 10

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 `ArithmeticException`. Display the exception in a message dialog box.



The image shows a screenshot of a web browser window displaying a handwritten Java code snippet. The code is written in a cursive style on a lined background. The code defines a class `IntegerDivision` that extends `Frame` and implements `ActionListener`. It declares three text fields (`n1`, `n2`, `res`), three labels (`ln1`, `ln2`, `lres`), and a button (`b`). The `IntegerDivision()` constructor sets the layout to `FlowLayout` and creates the labels with text "NUMBER1", "NUMBER2", and "NUMBER3".

```
import java.awt.*;  
import java.awt.event.*;  
import javax.swing.*;  
public class IntegerDivision extends Frame implements  
    ActionListener {  
    TextField n1, n2, res;  
    Label ln1, ln2, lres;  
    Button b;  
    public IntegerDivision() {  
        setLayout(new FlowLayout());  
        Label ln1 = new Label("NUMBER1", Label.RIGHT);  
        Label ln2 = new Label("NUMBER2", Label.RIGHT);  
        Label lres = new Label("NUMBER3", Label.RIGHT);
```

```
Week 12: Lab Program 10 and 11 x OOI-Lab-Programs/week 12_w... x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK%2012/week%2012_writeup.pdf Incognito (2)

n1 = new TextField(12);
n2 = new TextField(8);
res = new TextField(10);
b = new Button("DIVIDE");
add(n1);
add(n2);
add(res);
add(b);
b.addActionListener(this);
addWindowListener(new WindowAdapter());
```

```
Week 12: Lab Program 10 and 11 x OOI-Lab-Programs/week 12_w... x New Tab x +
github.com/Nayana117/OOI-Lab-Programs/blob/master/WEEK%2012/week%2012_writeup.pdf Incognito (2)

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) {
            res.setText("ERROR");
        }
    }
}
```

```
OptionPane.showMessageDialog(this, ne, "ERROR",
    JOptionPane.ERROR_MESSAGE);
}

catch(ArithmeticException a){
    JOptionPane.showMessageDialog(this, a, "ERROR",
        JOptionPane.ERROR_MESSAGE);
}

}

public static void main(String args[])
{
    Integer division 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:

