Lab-10 WAP that creates a user interface to perform integer Division. The user enters two nos. in the text field when 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 are not an integer the program would throw a Number Format Expression. 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.*;
public class Division extends Frame
implements ActionListener {
public class DialogD extends extends Frame
{
    String msg;
    DDialog myDialog;
    public DialogD() {
        myDialog = new DDialog(this, "New
        Dialog Box", msg);
    }
}

    String msg;
    TextField num1, num2, ans;
    Label L1, L2, L3;
    Button div;
    public Division() {
        setLayout(new FlowLayout());
        L1 = new
        Label("Dividend", Label.RIGHT);
```

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```java
L2 = new Label ("Divisor", Label, RIGHT);
L3 = new Label ("RESULT Result", Label,
                                    RIGHT);
num1 = new TextField (10);
num2 = new TextField (10);
res  = new TextField (10);
div  = new Button ("Divide");
add (L1);
add (num1);
add (L2);
add (&B1 num2);
add (L3);
add (res)
add (div);
div.addActionListener (this);
add WindowsListener (new MyWindows
                            Adapter ());
}
public void
actionPerformed (ActionEvent ae) {
int num1 = 0; num2 = 0;
try {
num1 = Integer.parseInt (this.num1.
                             getText());
num2 = Integer.parseInt (this.num2.get
                             Text()) -
double num3 = (double) num1 / num2;
res.setText (String.valueOf (num3));
msg = "Division Successful";
}
catch (NumberFormatException e)
{
```

```java
System.out.println(e);
res.setText(", ");
msg = "NumberFormatException";
DDialog dd = new DDialog(this,
                         "Dialog", msg);
dd.setVisible(true);
return;
}

try {
if (num2 == 0)
throw new ArithmeticException();
msg = "Can't be divided by Zero";
}

catch(ArithmeticException e)
{
    System.out.println("can't be divided
                        by zero"+e);
    res.setText(" ");
    msg = "Cant be divided by Zero";
    DDialog dd = new DDialog
                 (this "Dialog", msg);
    dd.setVisible(true);
    return;
}
}

public void paint(Graphics g) {
g.drawString(msg 80,100);
}

public static void main(String []args)
{
    Division appwin = new Division();
    appwin.setSize(new Dimension
                   (480,280));
```

```
appwin.setTitle("Division");
appwin.setVisible(true);
}
}

class MyWindowAdapter extends
WindowAdapter {
public void
windowClosing(WindowEvent we)
{
    System.exit(0);
}
}

class DDialog extends Dialog {
DDialog (Frame parent, String title
    String msg)
{
    super(parent, title, false);
    setLayout(new FlowLayout());
    setSize(300,300);
    add(new Label(msg));
    Button b;
    add(b = new Button("OK"));
    b.addActionListener((ae) -> dispose());
    addWindowListener(new WindowAdapter
        () {
    public void
    windowClosing(WindowEvent we)
    {
        dispose();
    }
    });
}
}
```