

- Q. Write a Program that creates a user interface to perform integer divisions. The user enters two numbers in the textfield, Num1 and Num2. The division of Num1 and Num2 is displayed in Result Field when the Divide Button is clicked. If Num1 and Num2 aren't integer throw NumberFormatException. If Num2 is zero throw ArithmeticException Display in the message dialog box.

```

CODE- import java.awt.*;
import java.awt.event.*;
class Dialog1 extends Dialog implements ActionListener
{
    int Div id;
    Dialog1(Frame parent, String title)
    {
        super(parent, title, false);
        id = (int) Div parent;
        setLayout(new FlowLayout());
        setSize(300, 200);
        add(new Label(id.msg));
        Button b;
        add(b = new Button("OK"));
        b.addActionListener(this);
    }
    public void actionPerformed(ActionEvent ae)
    {
        dispose();
    }
}

```

```
public class IntDiv extends JFrame implements  
ActionListener
```

```
{
```

```
TextField n1, n2, res;
```

```
String msg = "";
```

```
Label l1, l2, lres;
```

```
Button b;
```

```
public IntDiv()
```

```
{
```

```
setLayout(new FlowLayout());
```

```
Label l1 = new Label("Number 1", Label.RIGHT);
```

```
Label l2 = new Label("Number 2", Label.RIGHT);
```

```
Label lres = new Label("RESULT", Label.RIGHT);
```

```
n1 = new TextField(12);
```

```
n2 = new TextField(8);
```

```
res = new TextField(10);
```

```
b = new Button("DIVIDE");
```

```
add(l1);
```

```
add(n1);
```

```
add(l2);
```

```
add(b);
```

```
add(res);
```

```
add(lres);
```

```
add(b);
```

```
b.addActionListener(this);
```

```
addWindowListener(new WindowAdapter());
```

```
}
```

```
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)
{
    msg = "NumberFormatException";
    dialog1.d = new Dialog(this, "EXCEPTION");
    d.setVisible(true);
}
}
}

public static void main(String args[])
{
    IntDiv i = new IntDiv();
    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);
    }
}
}
```