9. Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num 1 & Num 2. The division of Num 1 & Num 2 is displayed in the Result field when the Divide Button is clicked. If Num 1 or Num 2 were not an Integer the program would throw a NumberFormatException If Num 2 were Zero, the program would throw an Arithmetic Exception Display the Exception in a Dialog box.

⇒

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class DivisionMain1 extends Frame
        implements ActionListener {
    TextField num1, num2;
    Button dResult;
    Lable outResult;

    public DivisionMain1 ( ) {
        setLayout (new FlowLayout ( ));
        dResult = new Button ("Result");
        Lable number1 = new Lable ("Number1
                : ", Label.RIGHT);
        Label number2 = new Lable ("Number2
                : ", Label.RIGHT);
        num1 = new TextField (5);
        num2 = new Textfield (5);
        outResult = new Label ("Result: ",
                Label.RIGHT);
        add (number1);
        add (num1);
        add (number2);
        add (num2);
```

```
add(dResult);
add(outResult);
dResult.addActionListener(this);
addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent we
    {
        System.exit(0);
    }
});
setTitle("Integer Division");
setSize(400, 200);
setVisible(true);
}
public void actionPerformed(ActionEvent ae) {
try{
if(ae.getSource() = dResult) {
int n1 = Integer.parseInt(num1.getText()
int n2 = Integer.parseInt(num2.get
                Text());
if(n2 == 0) {
    Throw new ArithmeticException("
        cannot divide by zero");
}
int result = n1 / n2;
outResult.setText("Result: " + result
}
} catch(NumberFormatException e) {
    JOptionPane.showMessageDialog(this,
please enter valid Integers!", "Number Format
Exception", JOptionPane.ERROR_MESSAGE);
}
catch(ArithmeticException e) {
JOptionPane.showMessageDialog(this.e.getMessage()
, "Arithmetic Exception", JOptionPane.
                ERROR_MESSAGE);
```

```
    }
}
public static void main (String [] args) {
        new DivisionMain();
    }
}
```

o/p:

Entering valid integers and clicking "RESULT" display the result in the Result. Label.

Invalid inputs (non-integer values or division by zero) show appropriate error message in a dialog box.