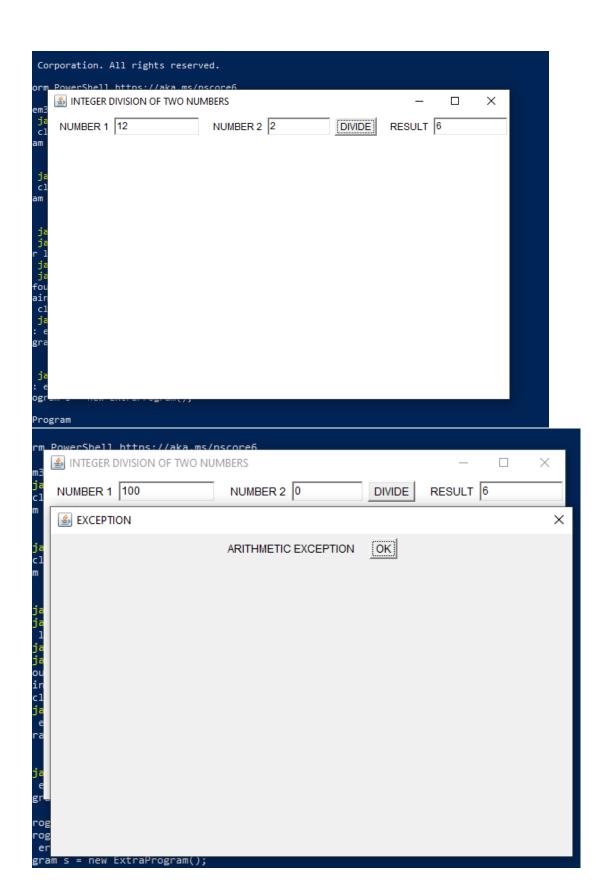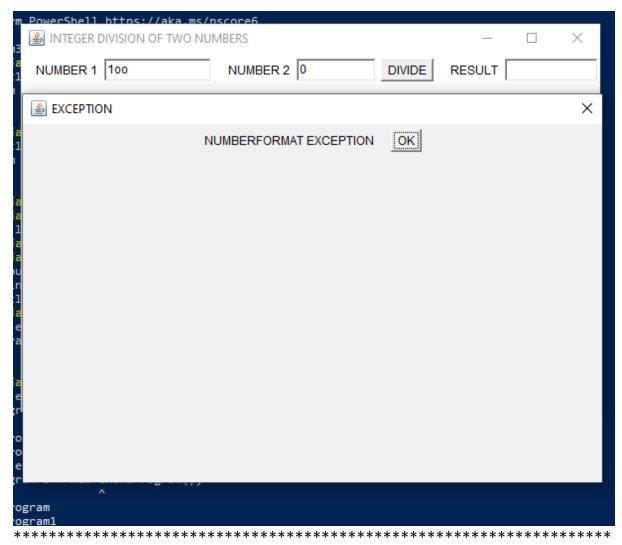**Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a NumberFormatException. If Num2 were Zero, the program would throw an Arithmetic Exception Display the exception in a message dialog box.**

```java
import java.awt.*;
import java.awt.event.*;
class dia extends Dialog implements ActionListener {
 integerdivision id;
 dia(Frame parent, String title) {
 super(parent, title, false);
  id=(integerdivision)parent;
 setLayout(new FlowLayout());
 setSize(600, 400);
 add(new Label(id.msg));
 Button b;
 add(b = new Button("OK"));
 b.addActionListener(this);
 }
  public void actionPerformed(ActionEvent ae) {
 dispose();
 }
}
public class integerdivision extends Frame implements
ActionListener{
    String msg = "";
    TextField n1,n2,res;
    Label ln1,ln2,lres;
    Button b;
    public integerdivision(){
        setLayout(new FlowLayout());
        Label ln1=new Label("NUMBER 1",Label.RIGHT);
        Label ln2=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(ln1);
        add(n1);
        add(ln2);
        add(n2);
        add(b);
```

```java
            add(lres);
            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 ){
            msg="NUMBERFORMAT EXCEPTION";
            dia d=new dia(this,"EXCEPTION");
            d.setVisible(true);
        }
        catch(ArithmeticException a){
            msg="ARITHMETIC EXCEPTION";
            dia d=new dia(this,"EXCEPTION");
            d.setVisible(true);
        }
    }
    }
    public static void main(String args[])
    {
        integerdivision i=new integerdivision();
        i.setSize(600,400);
        i.setTitle("INTEGER DIVISION OF TWO NUMBERS");
        i.setVisible(true);
    }

    class WindowAdapter1 extends WindowAdapter{
        public void windowClosing(WindowEvent we)
        {
            System.exit(0);
        }
    }
}
```

orm PowerShell https://aka.ms/pscore6

INTEGER DIVISION OF TWO NUMBERS — □ ✕

NUMBER 1 `12`   NUMBER 2 `2`   `DIVIDE`   RESULT `6`

Program

rm PowerShell https://aka.ms/pscore6

INTEGER DIVISION OF TWO NUMBERS — □ ✕

NUMBER 1 `100`   NUMBER 2 `0`   `DIVIDE`   RESULT `6`

EXCEPTION ✕

ARITHMETIC EXCEPTION   `OK`

gram s = new ExtraProgram();

INTEGER DIVISION OF TWO NUMBERS

NUMBER 1 `1oo`   NUMBER 2 `0`   DIVIDE   RESULT

EXCEPTION

NUMBERFORMAT EXCEPTION   OK

****
****