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 Arithmetic Exception Display the exception in a message dialog box.

```
import java.awt.*;
import java.awt.event.*;
class div extends Dialog implements ActionListener{
 Series d:
div(Frame parent, String title){
  super(parent,title,false);
  d=(Series)parent;
  setLayout(new FlowLayout());
  setSize(500,200);
  add(new Label(d.er));
  Button b:
  add(b=new Button("OK"));
  b.addActionListener(this);
 public void actionPerformed(ActionEvent ae){
  dispose();
 }
public class Series extends Frame implements ActionListener{
 TextField n1,n2,r;
 Button Divide:
 String er="";
 public Series()
  setLayout(new FlowLayout());
  Divide = new Button("Divide");
  Label n1p = new Label("Num1 :",Label.RIGHT);
```

```
Label n2p = new Label("Num2:",Label.RIGHT);
 n1 = new TextField(10);
 n2 = new TextField(10);
 r = new TextField(10);
 add(n1p);
 add(n1);
 add(n2p);
 add(n2);
 add(Divide);
 add(r);
 Divide.addActionListener(this);
 addWindowListener(new WindowAdapter(){
  public void windowClosing(WindowEvent we)
  {
   System.exit(0);
  }
});
public void actionPerformed(ActionEvent ae)
 int a=0,b=0,c=0,d=0;
 double re=0;
 try{
  a = Integer.parseInt(n1.getText());
  b = Integer.parseInt(n2.getText());
 }
 catch(NumberFormatException e1){
  er="Caught:"+e1;
  div dv = new div(this, "Error");
  dv.setVisible(true);
 }
 try{
  c = Integer.parseInt(n1.getText());
  d = Integer.parseInt(n2.getText());
  re=c/d;
 }
 catch(ArithmeticException e2){
```

```
er="Caught:"+e2+" as n2 ="+ n2.getText();
    div di = new div(this,"Error");
    di.setVisible(true);
}
    r.setText(" "+re);
}
public static void main(String args[]){
    Series appwin = new Series();
    appwin.setSize(new Dimension(800,400));
    appwin.setTitle("Integer Division");
    appwin.setVisible(true);
}
```

Output:



