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 dialogbox.

Observation:

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1. Write a program should recolle a curs Enterface to perform
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Num i and Nama is displayed in the Result field when
 the divide button is clicked. if www 1 or num 2 as were not
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 Display the exception in a menage dealog box
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    public class Divionmento 1 extends Freund Emplements Actions
     d TextField
      nums, mum 2º
       Button dresult:
      habel outreult, stoling out = un "
      double result Noun;
      ent flag =0;
      public Devisionmain 10)
      Set Lagout (new Flow Layout ());
      dresult = new Button ("RESULT");
     Label numbers = newhabel("Number I:", habelx [qtt);
     hab el numbers = new habel ("Num bers 2: " habel . RTG HT);
     nam1=new Texteld(5);
     neum 2 = neco Textfield (5)
     ord Result = new Label ("Result ", Loubel Rigger");
     addlnumbers); addlnum2); add (number 2); add (number 2);
     add (deenell); add (aut percell);
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  windownAdapter()
  public void windowclusting (window event we)
  d System 80,084(0);
  多);
  public void actions enformed ( netions vent we)
    System. exit(0);
  83;
 public void action (enformed) recition vent eve)
   int na, na; try
       a is (ae and source ) = desult)
           ms = Enfeggs.penseinl(hums.gatted());
           no: Tulique, parsetut (num 2. get (ext.c));
         (1 (m) 0)
         Throw new Andrew (Copperficon
         resultarin = notno; out += s trong value of (secutionin);
         repaint();
       cotch (Numberformal Exception e1)
       2 flag =1;
          out = "Number Format traception;" + e2;
           ore pount ();
      Catch (Assthureta exception e2)
         'out = " Divide by o exception !" + ez;
      d flag = 2;
         repaint();
        2
     2
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   of (flog ==0)
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    Public state aid main (string[] angs)
     Division moding don= neco Division reading ();
    dm. sellogalnew Dimenso (800, 400));
    dinset Title ("DIVIS roughtys"); &
    dmoset visible (mid);
                  astyraso po that a 1 - too
```

Source Code:

```
import java.awt.*; import java.awt.event.*; public class DivisionMain1 extends Frame
implements ActionListener {
  TextField num1, num2;
  Button dResult;
  Label outResult;
                     String out =
""; double resultNum;
flag = 0;
DivisionMain1()
        setLayout(new FlowLayout());
    dResult = new Button("RESULT");
                                                                Label number2
    Label number1 = new Label("Number 1:", Label.RIGHT);
= new Label("Number 2:", Label.RIGHT);
                                             num1 = new
                 num2 = new TextField(5);
TextField(5);
                                              outResult = new
Label("Result:", Label.RIGHT);
                                                add(number1);
add(num1);
               add(number2);
                                 add(num2);
                                                 add(dResult);
add(outResult);
                                 num1.addActionListener(this);
num2.addActionListener(this);
dResult.addActionListener(this);
                                      addWindowListener(new
WindowAdapter()
             public void windowClosing(WindowEvent we)
         System.exit(0);
    });
     setTitle("Division Calculator");
                                       setSize(300,
           setVisible(true);
200);
      public void actionPerformed(ActionEvent ae)
```

```
int n1, n2;
(ae.getSource() == dResult)
              n1 = Integer.parseInt(num1.getText());
                                                              n2 =
Integer.parseInt(num2.getText());
         if (n2 == 0)
                      throw new ArithmeticException("Cannot divide by zero!");
        out = n1 + "/" + n2 + " = ";
                                           resultNum =
(double) n1 / n2;
                         out += String.valueOf(resultNum);
                                                                   repaint();
      } catch(NumberFormatException e1)
      flag = 1; out = "Number Format Exception! " + e1;
                                                                   repaint();
    catch(ArithmeticException e2)
             flag = 1; out = "Divide by 0 Exception! " + e2;
repaint();
  public void paint(Graphics g)
        if(flag
 = 0
      g.drawString(out, outResult.getX() + outResult.getWidth(), outResult.getY() +
outResult.getHeight() - 8);
      g.drawString(out, 100, 200);
                                        flag = 0;
```

```
public static void main(String[] args)
{
```

```
DivisionMain1 dm=new DivisionMain1(); dm.setSize(new Dimension(800,400)); dm.setTitle("DivisionOfIntegers"); dm.setVisible(true);
}
```

Output:





