| | // | |
|-------|--|---|
| 4/10 | WEEK 12 8102 00 01 04 | |
| | WEEK 12 BLAB PROGRAM 10. | |
| | | 8 |
| | import java and +; | 2 |
| | import java awt event *; | |
| | January Source | |
| 9 ()- | dass Numbruption extends exception | |
| 1.0.5 | 10000 10000 Chapaon and and and and and and and and and an | |
| | 2 m. 10:0 01= 0.0 1.1 | |
| (atta | public string tostring () | |
| 60014 | neltion " siethmotic exception."; | |
| | } | |
| | J | |
| | class Fromatexception extends Exception | |
| | 5 | |
| 1.001 | 2 public string to sloring () | |
| 335 | return "Format Exception", | |
| Crea | 2001 30 mar change and a | |
| | | |
| | William Language Control | |
| - | public class divi entends France iniplements | |
| | Actiondistres | |
| | 5 | |
| | 2 year tiple numer augus | |
| | Jext Field num1, num2. | |
| - | Button div; | |
| | double resut, | |
| | String mag = "Result: "; | S |
| | public divi () | |
| | | |

Chine Contract Contract Tild id setagent (new Howdayont ()).

datel & num n = rewdatel ("Numerator: ", Label.); Rabel numan = newhabel ("Denominator: " Label RIGITT). Button tiv diy = new Button ("Divide"); nums = now Lenstield(5), rumo = new Jext field (5); add(numin), addlnumist, alduan sidno add(rum2n); add (num2); add (div); numi. addertionaistney (this); numa add deliendistner (Mis). div. add action aistney (this);

| - | | 0 |
|---|--|----------|
| | public écolean is Double (double no) | C |
| | \$ | (|
| | double d: | |
| | d = no-int(ano); | N. |
| | if (doc = = 0.0) | A |
| | return false; | 1 |
| | else | 7 |
| | return tone, | - |
| | 3 | 7 |
| | Description of the second of t | |
| | public couble divide (double a, double b) | - |
| | £ | |
| | f(b==0.0) | <u>U</u> |
| | Mononen Nantexception (); | 7 |
| | else if [isalouble (a) 11 vialouble (b)) | |
| | thion new Fernatexuption(); | (|
| | | |
| | relion (double) a/b. | |
| | 5 | |
| | public void artienPerformed (ActionGuent-a | |
| | 5 Consular Continuent a | e) |
| | L double a.h. | _ |
| | a= Double parse Double (num. 1. | |
| | getsent ()); | |
| | | |
| | | |

```
b= Double. passerDouble (nund. gctlent ()).
       neg = ("The result is" + result);
   catch (Numerception ne)
   mig = ne. lostoing (),
catch (Format Enception fe)
       meg= je tostring();
   erepaint ().
public void point (Graphius g)
g. drawstring (msg, 50, 150);
public static void main (String augs [])
     divide apro ace = new divilly
      aa. set size ( new Dimension ( 350, 300)).
      na settifle ("Divide 2 me");
      aa. set visible (tone);
```

```
File Edit Format View Help
import java.awt.*;
import java.awt.event.*;
class NumException extends Exception{
    public String toString()
          return "There is an Arithmetic Exception.";
    }
class FormatException extends Exception{
    public String toString()
          return "There is an Format Exception.";
    }
}
public class dividenums extends Frame implements ActionListener{
     TextField num1, num2;
    Button div;
double result;
String msg="The result is: 0.0";
     public dividenums()
          setLayout(new FlowLayout());
         Label num1n= new Label("Numerator: ",Label.RIGHT);
Label num2n= new Label("Denominator: ",Label.RIGHT);
Button div= new Button("Divide");
num1=new TextField(5);
          num2=new TextField(5);
          add(num1n);
add(num1);
          add(num2n);
```

*dividenums - Notepad

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```
*dividenums - Notepad
File Edit Format View Help
        add(num2n);
        add(num2);
add(div);
        num1.addActionListener(this);
        num2.addActionListener(this);
div.addActionListener(this);
        addWindowListener(new WindowAdapter()
             public void windowClosing(WindowEvent we)
                 System.exit(0);
        });
    public boolean isDouble(double num)
        double dec;
        dec=num-(int)num;
if(dec==0.0)
    return false;
             return true;
   } public double divide(double a, double b) throws NumException, FormatException
             throw new NumException();
        else if(isDouble(a) || isDouble(b)) {
            throw new FormatException();
```

```
*dividenums - Notepad
File Edit Format View Help
       else if(isDouble(a) || isDouble(b))
           throw new FormatException();
       return (double) a/b;
  public void actionPerformed(ActionEvent ae)
{
       double a,b;
       a=Double.parseDouble(num1.getText());
       b=Double.parseDouble(num2.getText());
       try{
result=divide(a,b);
msg=("The result is: "+result);
       catch(NumException ne)
          msg=ne.toString();
       catch(FormatException fe)
           msg=fe.toString();
       repaint();
   public void paint(Graphics g)
{
       g.drawString(msg,50,150);
   public static void main(String args[])
       dividenums appwin= new dividenums();
```

```
File Edit Format View Help
        return (double) a/b;
   public void actionPerformed(ActionEvent ae)
        double a,b;
a=Double.parseDouble(num1.getText());
b=Double.parseDouble(num2.getText());
        try{
        result=divide(a,b);
msg=("The result is: "+result);
        catch(NumException ne)
             msg=ne.toString();
        catch(FormatException fe)
             msg=fe.toString();
        repaint();
   public void paint(Graphics g)
        g.drawString(msg,50,150);
   public static void main(String args[])
        dividenums appwin= new dividenums();
        appwin.setSize(new Dimension(350,300));
        appwin.setTitle("Divide Two Numbers");
        appwin.setVisible(true);
```

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