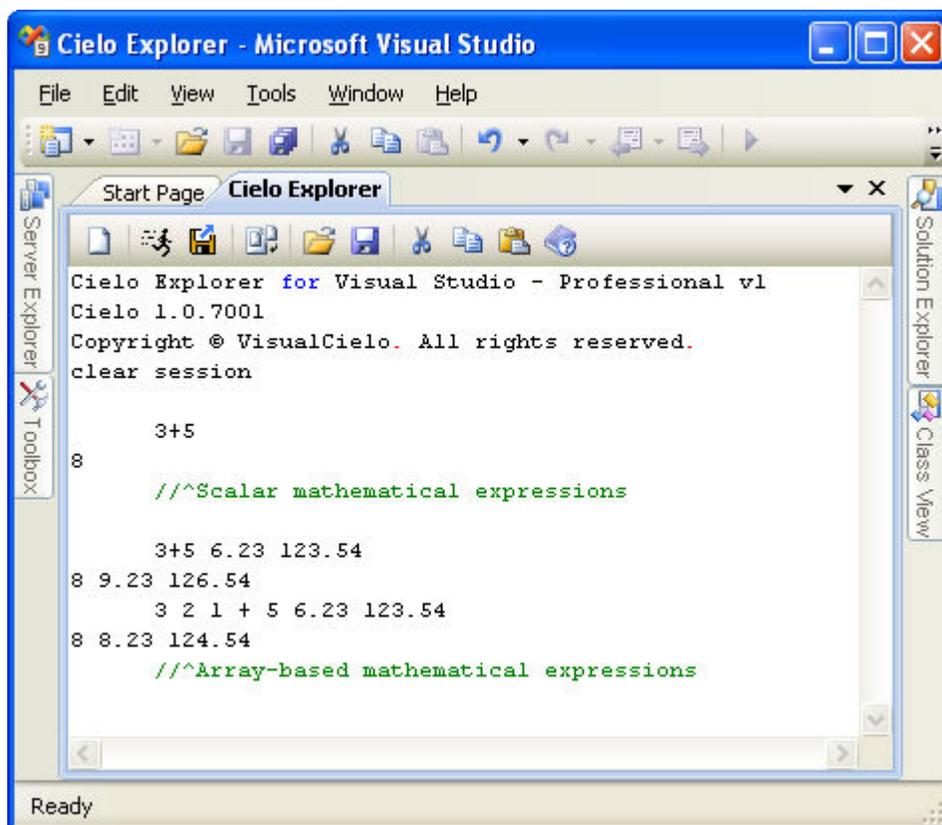


Cielo Explorer – Interactive Session for C# and VisualAPL

The **Cielo Explorer** is included in the installation of VisualAPL and provides a visual, immediate-mode, interactive session to explore C#, .Net and VisualAPL.

To display the Cielo Explorer in Visual Studio 2008, click the Visual Studio 2008 View > Other Windows > Cielo Explorer menu item. By default the Cielo Explorer will be displayed in 'floating' format. If you prefer a different display format, right click on the Cielo Explorer window title bar and select one of the other options, e.g. 'Tabbed Document' so that the Cielo Explorer tab will always appear on the main window when Visual Studio is started.

Using the 'desk calculator' mode of the **Cielo Explorer** is easy. Just enter the expression you wish to execute and press the Enter keystroke:



```
Cielo Explorer for Visual Studio - Professional v1
Cielo 1.0.7001
Copyright © VisualCielo. All rights reserved.
clear session

3+5
8
//^Scalar mathematical expressions

3+5 6.23 123.54
8 9.23 126.54
3 2 1 + 5 6.23 123.54
8 8.23 124.54
//^Array-based mathematical expressions
```

VisualAPL provides many other operators which support powerful array-manipulation, data extraction, text manipulation, logical and mathematical features. Here are a few more examples:

```
Cielo Explorer for Visual Studio - Professional v1
Cielo 1.0.7001
Copyright © VisualCielo. All rights reserved.
clear session

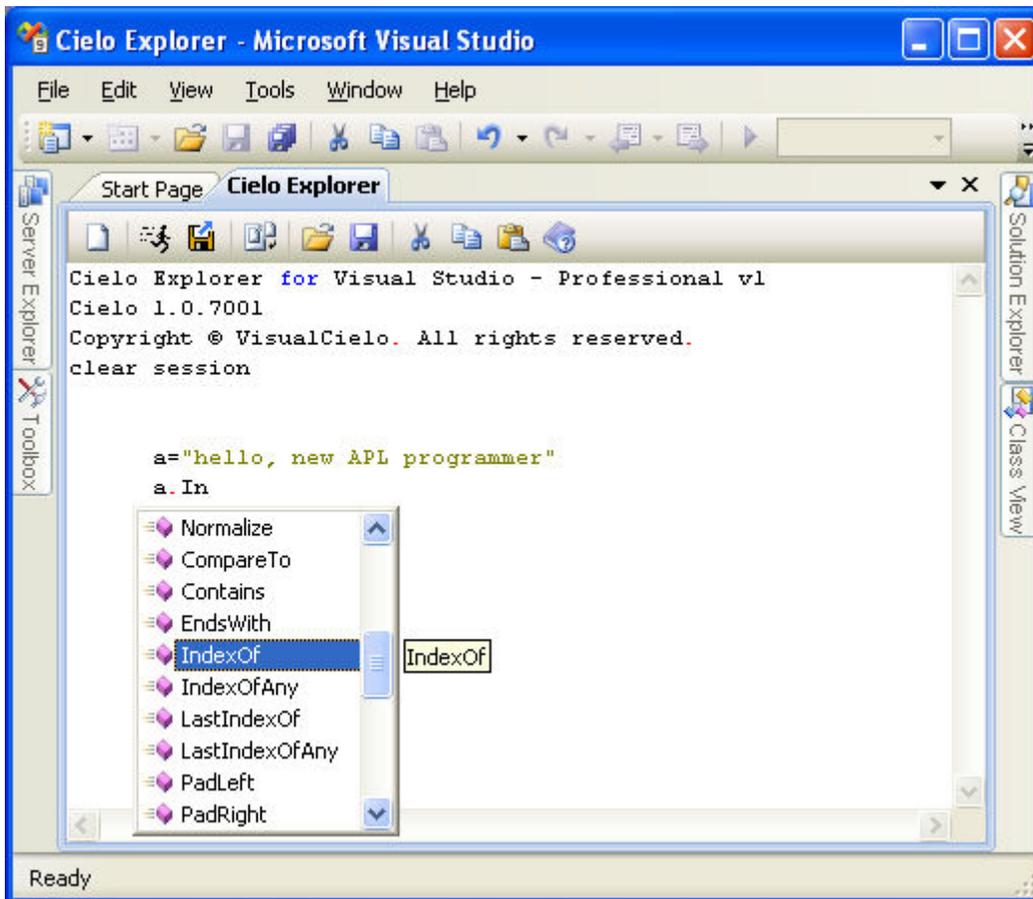
      X=4 5 6.23 5.678
      X
4 5 6.23 5.678
      //^Assignment by reference

      100+X
104 105 106.23 105.678
      100×X
400 500 623 567.8
      X÷100
0.04 0.05 0.0623 0.05678
      X-100
⁻96 ⁻95 ⁻93.77 ⁻94.322
      //^Array-based operations

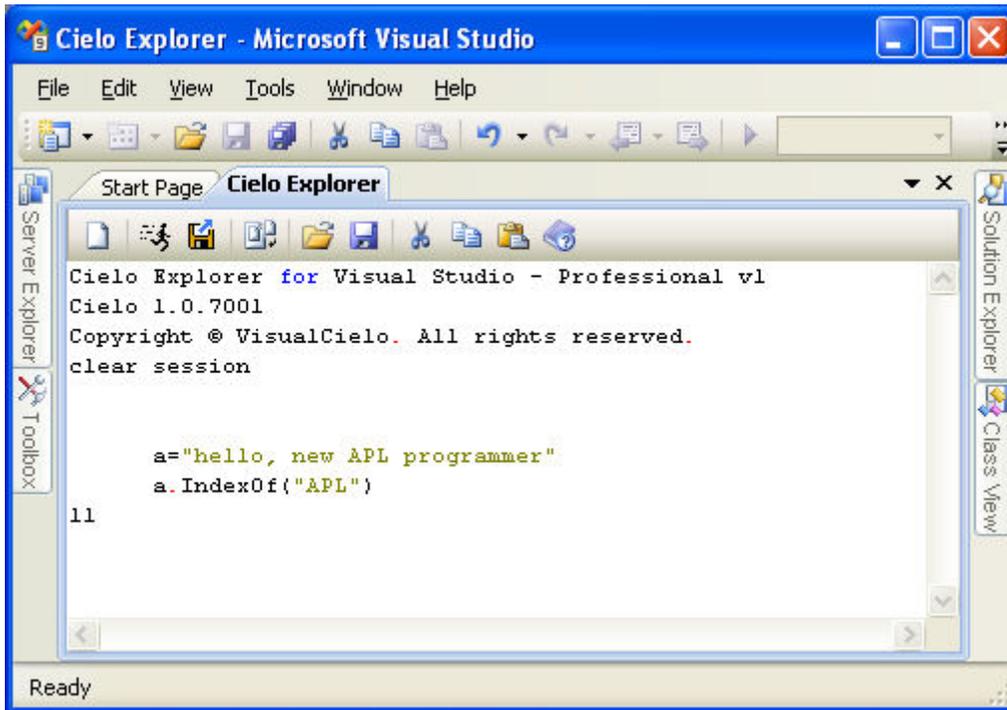
      Y=2 3p1 2 3 4 5 6
      Y
1 2 3
4 5 6
      100+Y
101 102 103
104 105 106
      100×Y
100 200 300
400 500 600
      100*Y
      100 10000 1000000
100000000 1E+10 1E+12
      //^Arrays of higher dimensions are supported too. |
```

In the next few **Cielo Explorer** examples we'll use some .Net features.

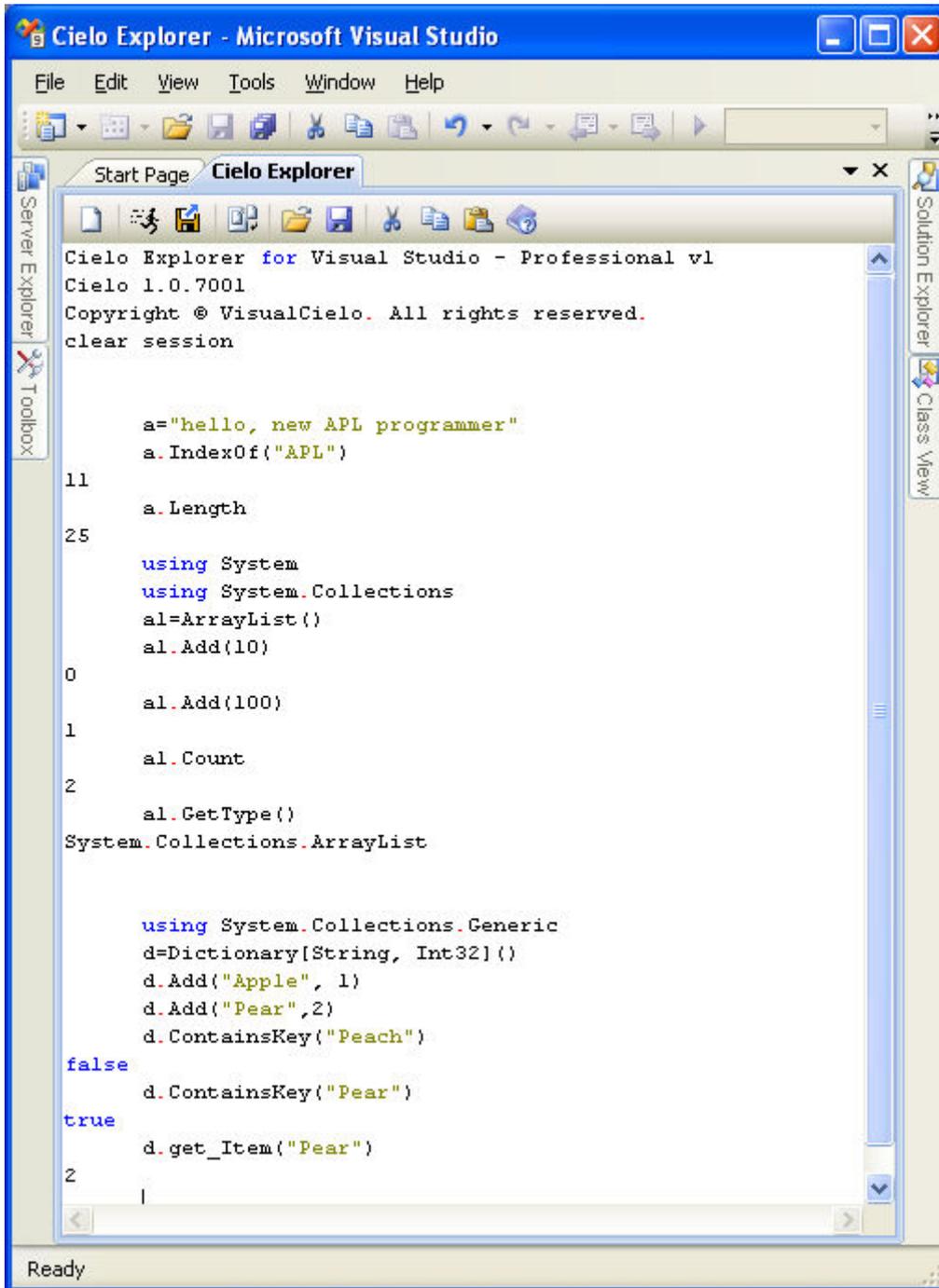
The **Cielo Explorer** is integrated with Microsoft Visual Studio, so Intellisense is available



Completing the statement and pressing the Enter key, causes the **Cielo Explorer** to display the result within the interactive 'session'.



Here are a few more examples showing how you can explore .Net classes interactively and see the results visually:



Besides using the **Cielo Explorer** in 'desk calculator' mode, you can also use it to create scripts containing C# and VisualAPL statements to define classes, methods, properties, events, use Windows forms or any other .Net class, etc. **Cielo Explorer** scripts can be saved, recalled, edited, executed and if desired, turned into .Net assemblies. Go here for examples: <http://forum.apl2000.com/viewtopic.php?t=414>.

In the previous examples you may have observed some APL operators which are new to you. There are many more APL operators which haven't been illustrated in these few examples. Maybe you're ready to learn more about APL? If so, here are few information sources:

The web site of the VisualAPL product distribution team

www.apl2000.com

The VisualAPL Forum [registration is free]

<http://forum.apl2000.com/viewforum.php?f=4&sid=8570d1dd38d82244bc569db71daac800>

A VisualAPL tutorial

<http://forum.apl2000.com/viewtopic.php?t=325>

Download a free, full-featured, evaluation version of VisualAPL

<http://forum.apl2000.com/viewtopic.php?t=427>

An interactive APL programming language tutorial you can download:

http://www.apl2000.com/Zark_APL_Tutor.EXE

For more information about VisualAPL and the Cielo Explorer please contact

sales@apl2000.com