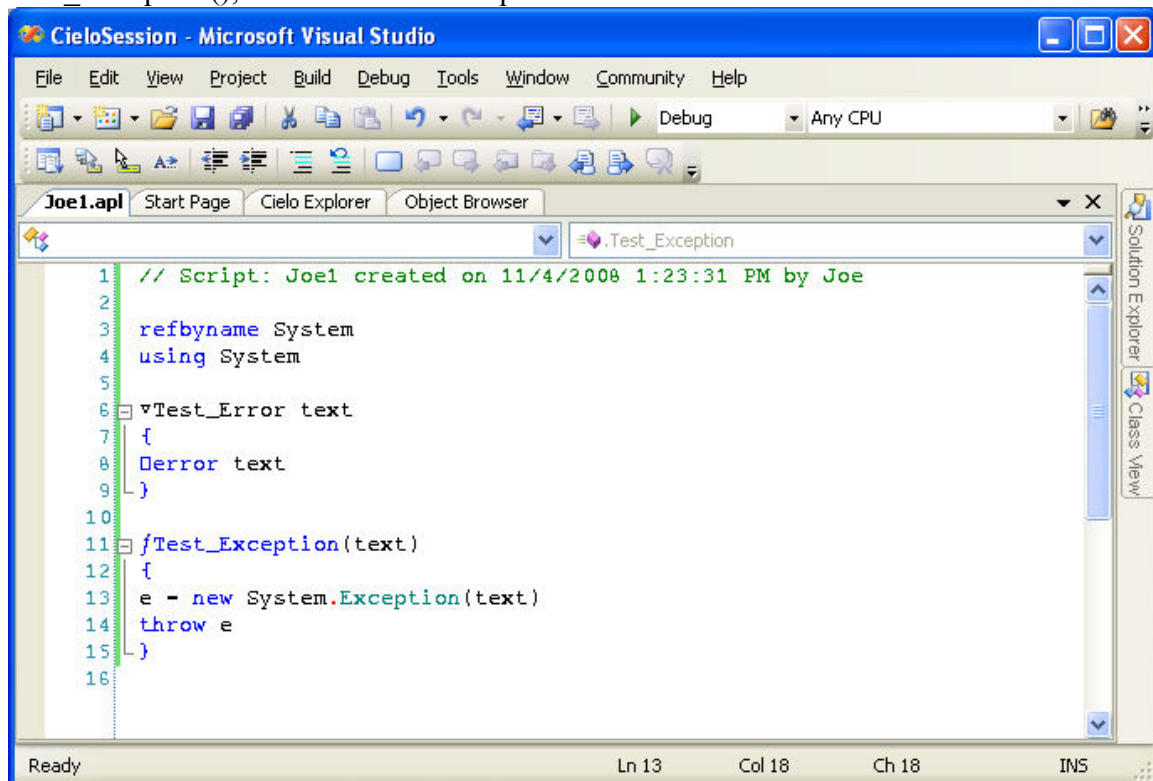


Creating a 'Custom Exception' in VisualAPL

Sometimes it is desirable to present a custom error message and pass the error message out to the calling environment.

In VisualAPL, the []error syntax is available. For example, it is used in the Test_Error APL-syntax function, Test_Error, in the Joel script illustrated here. In addition the .Net Exception class is also available and that is illustrated in the C#-format function, Test_Exception(), also in the Joel script.

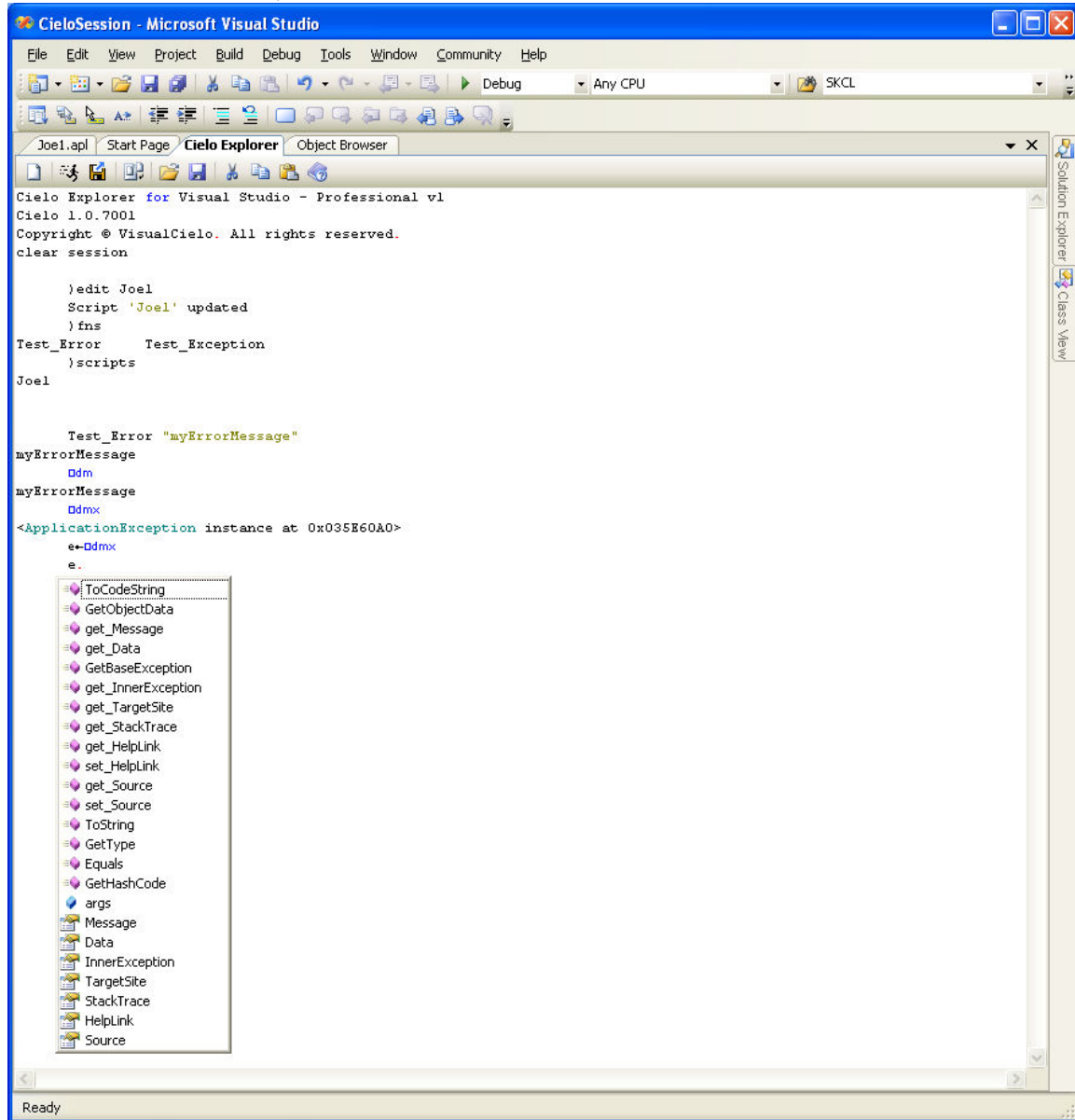


The screenshot shows the Microsoft Visual Studio IDE with the title bar 'CieloSession - Microsoft Visual Studio'. The menu bar includes File, Edit, View, Project, Build, Debug, Tools, Window, Community, and Help. The toolbar shows various icons for file operations, editing, and debugging. The 'Joel1.apl' file is open, and the 'Start Page' tab is selected. The 'Cielo Explorer' and 'Object Browser' tabs are also visible. The main code editor displays the following C# code:

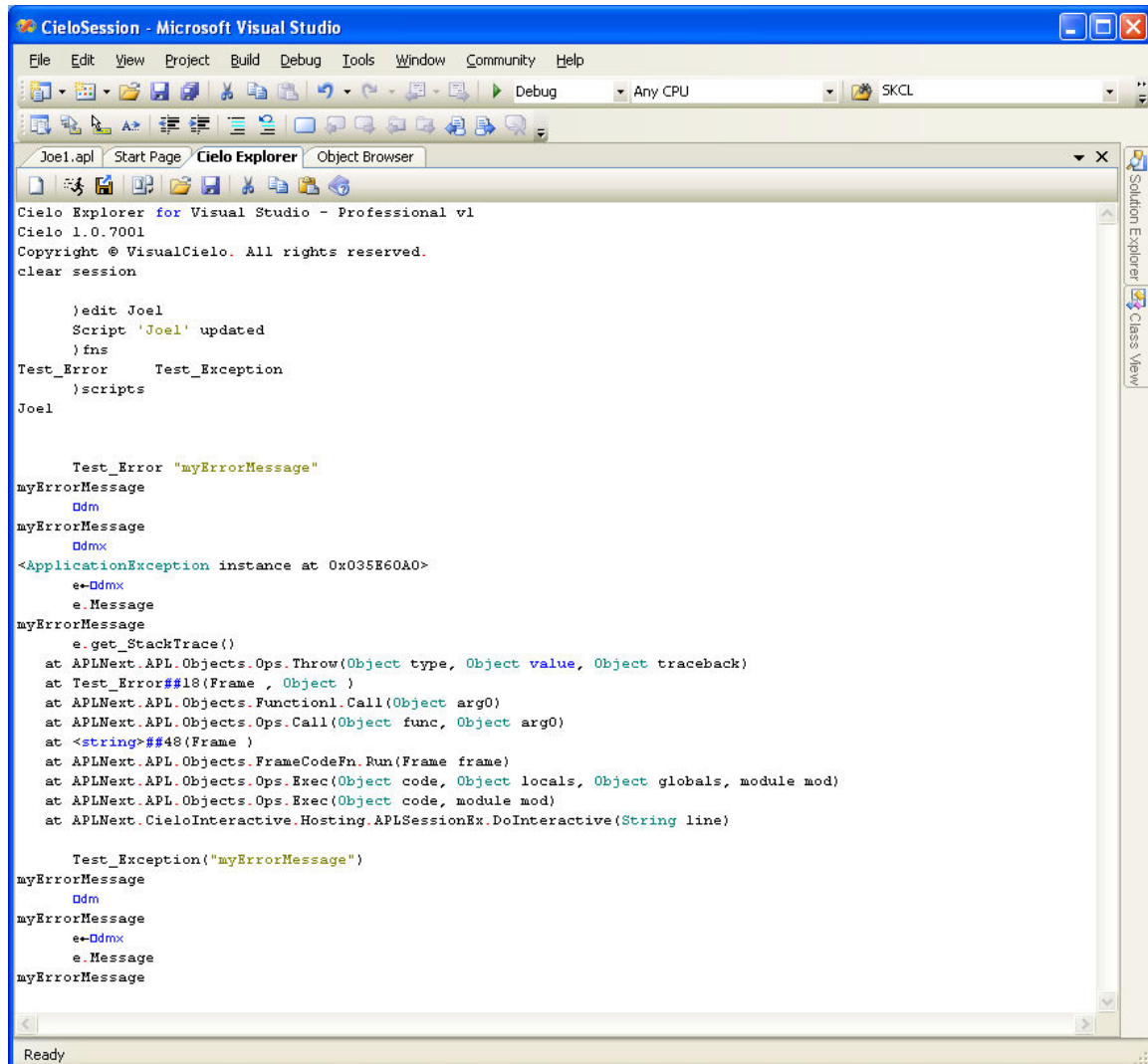
```
1 // Script: Joel created on 11/4/2008 1:23:31 PM by Joe
2
3 refbyname System
4 using System
5
6 vTest_Error text
7 {
8     Derror text
9 }
10
11 fTest_Exception(text)
12 {
13     e = new System.Exception(text)
14     throw e
15 }
16
```

The status bar at the bottom indicates 'Ready', 'Ln 13', 'Col 18', 'Ch 18', and 'INS'.

Executing Test_Error results in the custom error message as expected. This can be captured by using []dm. The .Net-extended []dmx can also be captured and provides additional information, if desired.



Executing the Test_Exception() function also results in the custom error message and it can also be captured using []dm and []dmx.



```
Joel.apl | Start Page | Cielo Explorer | Object Browser
Cielo Explorer for Visual Studio - Professional v1
Cielo 1.0.7001
Copyright © VisualCielo. All rights reserved.
clear session

    )edit Joel
    Script 'Joel' updated
    )fns
Test_Error      Test_Exception
)scripts
Joel

    Test_Error "myErrorMessage"
myErrorMessage
[]dm
myErrorMessage
[]dmx
<ApplicationException instance at 0x035E60A0>
e←[]dmx
e.Message
myErrorMessage
e.get_StackTrace()
at APLNext.APL.Objects.Ops.Throw(Object type, Object value, Object traceback)
at Test_Error##18(Frame , Object )
at APLNext.APL.Objects.Function1.Call(Object arg0)
at APLNext.APL.Objects.Ops.Call(Object func, Object arg0)
at <string>##48(Frame )
at APLNext.APL.Objects.FrameCodeFn.Run(Frame frame)
at APLNext.APL.Objects.Ops.Exec(Object code, Object locals, Object globals, module mod)
at APLNext.APL.Objects.Ops.Exec(Object code, module mod)
at APLNext.CieloInteractive.Hosting.APLSessionEx.DoInteractive(String line)

    Test_Exception("myErrorMessage")
myErrorMessage
[]dm
myErrorMessage
e←[]dmx
e.Message
myErrorMessage
```