```
1 Imports System.Collections.Generic
 3 Imports Grasshopper.Kernel
 4 Imports Rhino.Geometry
 5 Imports Interop.gsa 8 7
 6 Imports UsageDataCollection
 8 Public Class OpenGsaFile
 9
        Inherits GH Component
10
        ''' <summary>
        ''' Initializes a new instance of the OpenGsaFile class.
11
        ''' </summary>
12
        Public Sub New()
13
14
           MyBase.New("Open Gsa File", "Open", _
                    "Opens Gsa File and Passes to Subsequent Tasks", _
15
                    "GsaComTools", "I/O")
16
        End Sub
17
18
        ''' <summary>
19
20
        ''' Registers all the input parameters for this component.
        ''' </summary>
21
22
        Protected Overrides Sub RegisterInputParams(pManager As
          GH Component.GH InputParamManager)
            pManager.AddBooleanParameter("Run", "Run", "Run", GH_ParamAccess.item)
23
            pManager.AddTextParameter("Path", "Path", "Gsa Path",
24
              GH ParamAccess.item)
25
        End Sub
26
        ''' <summary>
27
        ''' Registers all the output parameters for this component.
28
        ''' </summary>
29
30
        Protected Overrides Sub RegisterOutputParams(pManager As
                                                                                     P
          GH Component.GH OutputParamManager)
31
            pManager.AddGenericParameter("File", "File", "Gsa File",
              GH ParamAccess.item)
        End Sub
32
33
        ''' <summary>
34
        ''' This is the method that actually does the work.
35
        ''' </summary>
36
        ''' <param name="DA">The DA object is used to retrieve from inputs and
37
          store in outputs.</param>
38
        Protected Overrides Sub SolveInstance(DA As IGH_DataAccess)
39
40
            Dim Run As Boolean
41
           Dim FileName As String
42
           Dim GsaObj As ComAuto
43
           Dim myDataCollector As New DataCollector
44
45
            'Import GSA File Name
           If (Not DA.GetData(0, Run)) Then Return
46
           If (Not DA.GetData(1, FileName)) Then Return
47
48
49
           If Run = False Then Return
50
51
           Try
```

```
...3d24fca27ec0d74b10ba62124496\GsaComTools\OpenGsaFile.vb
52
                GsaObj = New ComAuto()
53
           Catch ex As System.Runtime.InteropServices.COMException
54
                Throw New System.Exception("Cannot initialise GSA object. " &
                  ex.Message)
55
           End Try
           If GsaObj Is Nothing Then
56
57
                Throw New System.Exception("Cannot initialise GSA object")
58
           End If
            ' we parse using the EN GB locale
59
60
           GsaObj.SetLocale(Locale.LOC_EN_GB)
61
           GsaObj.Open(FileName)
62
63
64
            'Send Usage Data
           myDataCollector.UsageStatistics("GetElementNumbers")
65
66
67
            ' Assign the data to the output parameter.
68
           DA.SetData(0, GsaObj)
69
70
       End Sub
71
        ''' <summary>
72
        ''' Provides an Icon for every component that will be visible in the User 🕞
73
         Interface.
74
        ''' Icons need to be 24x24 pixels.
        ''' </summary>
75
       Protected Overrides ReadOnly Property Icon() As System.Drawing.Bitmap
76
77
78
                Return My.Resources.IO_OpenGsaFile
79
                Return Nothing
80
            End Get
81
       End Property
82
        ''' <summary>
83
        ''' Gets the unique ID for this component. Do not change this ID after
```

Public Overrides ReadOnly Property ComponentGuid() As Guid

Return New Guid("{53525f48-34b2-4871-b792-062a2485554a}")

release.
''' </summary>

End Get

End Property

85 86

87 88

89

90

91 End Class