

```
Imports System
Imports System.Globalization

Public Class Form1

Inherits System.Windows.Forms.Form

Dim MathcadApplication As Mathcad.IMathcadApplication2

Private Sub ExitToolStripMenuItem_Click( ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ExitToolStripMenuItem.Click
    If ( Not MathcadApplication Is Nothing ) then
        MathcadApplication.ActiveWorksheet.Close( Mathcad.MCSaveOption.mcDiscardChanges )
        MathcadApplication.Quit
    End If
    Close
End Sub

Private Sub ToolStripMenuItem1_Click( ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ToolStripMenuItem1.Click
    openFileDialog1.Title = "Open"
    openFileDialog1.FileName = ""
    openFileDialog1.Multiselect = false
    openFileDialog1.DefaultExt = ".xmc"
    openFileDialog1.CheckFileExists = true
    openFileDialog1.CheckPathExists = true
    openFileDialog1.ShowReadOnly = false
    openFileDialog1.ValidateNames = true
    openFileDialog1.RestoreDirectory = true
    openFileDialog1.InitialDirectory = Application.StartupPath
    openFileDialog1.Filter = "Mathcad XML document (.xmc)|*.xmc|Mathcad Compressed XML document (.xmc)|*.xmcz"

    If ( Not openFileDialog1.ShowDialog = DialogResult.OK ) Then Exit Sub

    MathcadApplication = New Mathcad.Application() With {.Visible = False}

    MathcadApplication.Worksheets.Open( openFileDialog1.FileName )
End Sub

Private Sub ToolStripMenuItem2_Click( ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ToolStripMenuItem2.Click

Dim myC As New Double
Dim myA As New Double, myB As New Double
Dim Elem As Mathcad.NumericValue
Dim provider As NumberFormatInfo

provider = New NumberFormatInfo() With { .NumberDecimalSeparator = "." }

myA = Convert.ToDouble( txtA.Text, provider )
myB = Convert.ToDouble( txtB.Text, provider )

' Assigning String Value to MathCAD
MathcadApplication.ActiveWorksheet.SetValue("A", myA)
MathcadApplication.ActiveWorksheet.SetValue("B", myB)

MathcadApplication.ActiveWorksheet.Recalculate

Elem = MathcadApplication.ActiveWorksheet.GetValue("C")

' Convert to double
myC = Elem.Real
```

```
    Elem = Nothing
    txtC.Text = String.Format( provider, "{0}", myC )
End Sub

End Class
```