***The program consists of two forms and one module***

**Form 1**

**Imports System.Data**

**Imports System.Data.OleDb**

**Imports Excel = Microsoft.Office.Interop.Excel**

**Public Class Form1**

**Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load**

**Me.BackColor = Color.DarkGray**

**Me.TransparencyKey = Color.DarkGray**

**Me.FormBorderStyle = Windows.Forms.FormBorderStyle.None**

**Me.ControlBox = False**

**End Sub**

**Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click**

**Dim appXL As Excel.Application**

**Dim wbXl As Excel.Workbook**

**Dim shXL As Excel.Worksheet**

**Dim raXL As Excel.Range**

**appXL = CreateObject("Excel.Application")**

**appXL.Visible = False**

**wbXl = appXL.Workbooks.Add**

**shXL = wbXl.ActiveSheet**

**shXL.DisplayRightToLeft = False**

**shXL.Name = "sheet1"**

**shXL.Cells(1, 1).Value = "serial"**

**shXL.Cells(1, 2).Value = "sample"**

**shXL.Cells(1, 3).Value = "Ti"**

**shXL.Cells(1, 4).Value = "TK"**

**shXL.Cells(1, 5).Value = "TC"**

**With shXL.Range("A1", "E1")**

**.Font.Bold = True**

**.Font.Size = 14**

**.Font.Name = "arial"**

**.VerticalAlignment = Excel.XlVAlign.xlVAlignCenter**

**End With**

**appXL.UserControl = True**

**Dim saveFileDialog As New SaveFileDialog**

**saveFileDialog.InitialDirectory = My.Computer.FileSystem.SpecialDirectories.Desktop**

**saveFileDialog.Filter = \_**

**"Excel files (\*.xlsx)|\*.xlsx|XLS Files (\*.xls)|\*xls"**

**If saveFileDialog.ShowDialog = Windows.Forms.DialogResult.OK Then**

**Dim fi As New IO.FileInfo(saveFileDialog.FileName.Trim)**

**wbXl.SaveAs(fi.FullName)**

**wbXl.Close()**

**raXL = Nothing**

**shXL = Nothing**

**wbXl = Nothing**

**appXL.Quit()**

**appXL = Nothing**

**y = fi.FullName**

**Else**

**Exit Sub**

**End If**

**Me.Hide()**

**insert.Show()**

**End Sub**

**Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click**

**Dim OpenFileDialog As New OpenFileDialog**

**OpenFileDialog.InitialDirectory=My.Computer.FileSystem.SpecialDirectories.Desktop**

**OpenFileDialog.Filter = \_**

**"Excel files (\*.xlsx)|\*.xlsx|XLS Files (\*.xls)|\*xls"**

**If OpenFileDialog.ShowDialog = Windows.Forms.DialogResult.OK Then**

**Dim fi As New IO.FileInfo(OpenFileDialog.FileName)**

**y = fi.FullName**

**Else**

**Exit Sub**

**End If**

**Me.Hide()**

**insert.Show()**

**End Sub**

**Private Sub Button3\_Click(sender As Object, e As EventArgs) Handles Button3.Click**

**End**

**End Sub**

**End Class**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Form 2**

**Form name: "Insert"**

**Imports System.Data**

**Imports System.Data.OleDb**

**Imports Excel = Microsoft.Office.Interop.Excel**

**Public Class insert**

**Dim conn As New OleDbConnection("PROVIDER = MICROSOFT.ACE.OLEDB.12.0;DATA SOURCE =" & y & "; EXTENDED PROPERTIES=EXCEL 12.0;")**

**Dim dta As OleDbDataAdapter**

**Private Sub PictureBox4\_Click(sender As Object, e As EventArgs) Handles PictureBox4.Click**

**MessageBox.Show("Note" & vbCrLf & "In the Excel sheet" & vbCrLf & "small green arrows (if present) mean that the numbers are formatted as text" & vbCrLf & "To solve this problem" & vbCrLf & "File...Options...Formulas...Uncheck numbers formatting as text")**

**End**

**End Sub**

**Private Sub PictureBox1\_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click**

**Dim cmd As New OleDbCommand("insert into [sheet1$] Values (@serial, @sample,@Ti,@TK,@TC)", conn)**

**If TextBox1.Text = "" Then**

**MessageBox.Show("Please, insert sample number")**

**Exit Sub**

**End If**

**If TextBox2.Text <> "" Then**

**TK = Math.Round(5080 / (6.01 - System.Math.Log10(TextBox2.Text)), 2)**

**TC = TK - 273.15**

**Else : MessageBox.Show("Please, insert Ti content in ppm")**

**TextBox2.Focus()**

**End If**

**cmd.Parameters.Add("serial", OleDbType.Integer).Value = selectMax() + 1**

**cmd.Parameters.Add("sample", OleDbType.VarChar).Value = TextBox1.Text**

**cmd.Parameters.Add("Ti", OleDbType.Double).Value = CType(TextBox2.Text, Double)**

**cmd.Parameters.Add("TK", OleDbType.Double).Value = TK**

**cmd.Parameters.Add("TC", OleDbType.Double).Value = TC**

**conn.Open()**

**cmd.ExecuteNonQuery()**

**conn.Close()**

**grd.Columns.Clear()**

**conn.Open()**

**Dim dt As New DataTable**

**Dim cmd2 As New OleDbCommand("select \* from [sheet1$]", conn)**

**dt.Load(cmd2.ExecuteReader)**

**conn.Close()**

**grd.DataSource = dt**

**grd.Visible = True**

**TextBox1.Text = ""**

**TextBox2.Text = ""**

**serial.Text = selectMax() + 1**

**TextBox1.Focus()**

**End Sub**

**Private Sub insert\_Load(sender As Object, e As EventArgs) Handles MyBase.Load**

**grd.Columns.Clear()**

**conn.Open()**

**Dim dt As New DataTable**

**Dim cmd2 As New OleDbCommand("select \* from [sheet1$]", conn)**

**dt.Load(cmd2.ExecuteReader)**

**conn.Close()**

**grd.DataSource = dt**

**grd.Visible = True**

**serial.Text = selectMax() + 1**

**TextBox1.Focus()**

**End Sub**

**Private Function selectMax()**

**Dim n As Integer**

**Dim cmd As New OleDbCommand("select max(serial) from [sheet1$]", conn)**

**conn.Open()**

**Try**

**n = cmd.ExecuteScalar**

**Catch**

**n = 0**

**End Try**

**conn.Close()**

**Return n**

**End Function**

**End Class**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Module 1**

**Module Module1**

**Public TK = 0**

**Public TC = 0**

**Public y As String**

**End Module**