

# Excel VBA

- Get current user name
- Add Worksheet if it does not exist
- High Precision Timer using Windows API
- Get user desktop and make a folder
- Delete a worksheet
- Detect OS Type

# Get current user name

For a computer that is not joined to a domain (Computer Username)

```
Sub Get_Username()  
' Get the environment username  
Dim UserName As String  
UserName = Environ$("UserName")  
MsgBox "Hello " & UserName  
End Sub
```

For a computer that is joined to a domain (Domain Display Name)

```
Sub Get_DomainDisplayName()  
' Get the environment username  
Dim UserName As String, DisplayName As String  
UserName = Environ$("UserName")  
' Get the displayname  
Dim objAllNames As Object  
On Error Resume Next  
Set objAllNames = GetObject("Winmgmts:").instancesof("win32_networkloginprofile")  
For Each objIndName In objAllNames  
If objIndName = UserName Then  
DisplayName = objIndName.FullName  
End If  
Next  
MsgBox "Hello " & DisplayName  
End Sub
```

# Add Worksheet if it does not exist

Add a worksheet titled "Data" if it doesn't exist and ignore adding if it already exists

```
Sub Add_Worksheet()  
Dim i As Long  
For i = 1 To Worksheets.Count  
    If Worksheets(i).Name = "Data" Then  
        SheetFound = True  
    End If  
Next i  
  
If Not SheetFound Then  
    Sheets.Add( After:=Sheets(Sheets.Count)).Name = "Data"  
End If  
End Sub
```

# High Precision Timer using Windows API

High Precision Timer using Windows API

```
Private Declare PtrSafe Function QueryPerformanceCounter Lib "kernel32" (lpPerformanceCount As Currency) As Long
Private Declare PtrSafe Function QueryPerformanceFrequency Lib "kernel32" (lpFrequency As Currency) As Long

Sub CodeTimer()
    Dim StartTime As Currency, CurrentTime As Currency, TickFrequency As Currency
    QueryPerformanceFrequency TickFrequency 'Get ticks per second of the PC
    QueryPerformanceCounter StartTime 'Get current tick count(Used before code to time)

    ' Timed code here

    QueryPerformanceCounter CurrentTime 'Get current tick count(Used after code to time)
    MsgBox (CurrentTime - StartTime) / TickFrequency 'Returns how many seconds the timed code took to run
End Sub
```

# Get user desktop and make a folder

Get user desktop and make a folder

```
Dim DeskTop As String
Dim WSH As Object
Dim GetDesktopPath As String
Dim MainFolder As String

Set WSH = CreateObject("WScript.Shell")
DeskTop = WSH.SpecialFolders("desktop")

GetDesktopPath = DeskTop
Set WSH = Nothing

MainFolder = "Your Folder Name" 'Folder to be created on the desktop
Dim Path As String
Path = GetDesktopPath & "\" & MainFolder & "\"
If Len(Dir(Path, vbDirectory)) = 0 Then
Mkdir (Path)
End If
```

# Delete a worksheet

To delete a worksheet titled "Data"

```
Sub DeleteSheet()  
Application.DisplayAlerts = False  
    ' Replace "Data" with your sheet name  
Sheets("Data").Delete  
Application.DisplayAlerts = True  
End Sub
```

# Detect OS Type

Used to detect if OS Type is Windows or macOS

```
Sub GetOSType()  
    ' Get the OS that I am running from  
    Dim OSType As String  
    OSType = Application.OperatingSystem  
    If OSType Like "*Windows*" Then  
        OSType = "Windows"  
    Else  
        If OSType Like "*Macintosh*" Then  
            OSType = "macOS"  
        End If  
    End If  
    ' Message box of the detected OS  
    MsgBox OSType  
End Sub
```