

Tipp : 1.

IN FORM:

'Beispiel : Registrierten Anwender aendern...

```
Public Sub sCreateNewOwnder(IHKey As Long, sPath As String, sValue As String, sData As String)
    Dim IKey As Long
    Dim IRet As Long

    IRet = RegCreateKey(IHKey, sPath, IKey)
    IRet = RegSetValueEx(IKey, sValue, 0, REG_SZ, ByVal sData, Len(sData))
    IRet = RegCloseKey(IKey)
End Sub

Private Sub Command1_Click()
    sOwner$ = Text1
    If sOwner$ = "" Then
        MsgBox "Sie muessen einen zu anderen Namen eingeben", vbOKOnly + vbCritical, "Fehler...", 0, 0
        Exit Sub
    End If
    Call sCreateNewOwnder(HKEY_LOCAL_MACHINE, "Software\Microsoft\Windows\CurrentVersion", "RegisteredOwner", sOwner$)
End Sub

Private Sub Command2_Click()
    Unload Me
End Sub
```

IN MODUL:

```
Declare Function RegCloseKey Lib "advapi32.dll" (ByVal Hkey As Long) As Long

Declare Function RegSetValueEx Lib "advapi32.dll" Alias "RegSetValueExA" _
    (ByVal Hkey As Long, ByVal lpValueName As String, ByVal _
    Reserved As Long, ByVal dwType As Long, lpData As Any, ByVal _
    cbData As Long) As Long

Declare Function RegCreateKey Lib "advapi32.dll" Alias "RegCreateKeyA" _
    (ByVal Hkey As Long, ByVal lpSubKey As String, phkResult As Long) As Long

Public Const HKEY_LOCAL_MACHINE = &H80000002
Public Const REG_SZ = 1
Public Const REG_DWORD = 4
```

Tipp : 2.

IN FORM:

'Beispiel : registrierte Organisation aendern

```
Public Sub sSaveNewOrganisation(IHKey As Long, sPath As String, sValue As String, sData As String)
    Dim IKey As Long
    Dim IRet As Long

    IRet = RegCreateKey(IHKey, sPath, IKey)
    IRet = RegSetValueEx(IKey, sValue, 0, _
    REG_SZ, ByVal sData, Len(sData))
    IRet = RegCloseKey(IKey)
End Sub

Private Sub Command1_Click()
    sOrganisation$ = Text1
    If sOrganisation$ = "" Then MsgBox "Sie muessen einen neuen Namen eigegeben!", _
        vbOKOnly + vbCritical, "Fehler...", 0, 0
        Exit Sub
    End If
    Call sSaveNewOrganisation(HKEY_LOCAL_MACHINE, "Software\Microsoft\Windows\CurrentVersion", "RegisteredOrganization",
    sOrganisation$)
End Sub

Private Sub Command2_Click()
    Unload Me
End Sub
```

IN MODUL:

```
Declare Function RegCloseKey Lib "advapi32.dll" (ByVal Hkey As Long) As Long
```

```
Declare Function RegSetValueEx Lib "advapi32.dll" _  
    Alias "RegSetValueExA" _  
    (ByVal Hkey As Long, _  
    ByVal IpValueName As String, _  
    ByVal Reserved As Long, _  
    ByVal dwType As Long, _  
    lpData As Any, _  
    ByVal cbData As Long) _  
    As Long  
  
Declare Function RegCreateKey Lib "advapi32.dll" Alias _  
    "RegCreateKeyA" _  
    (ByVal Hkey As Long, _  
    ByVal IpSubKey As String, _  
    phkResult As Long) _  
    As Long
```

```
Public Const HKEY_LOCAL_MACHINE = &H80000002
```

```
Public Const REG_SZ = 1
```

```
Public Const REG_DWORD = 4
```

Tipp : 3.

IN FORM:

'Beispiel : Programme in der Registrierung speichern

'In diesem Beispiel in:

'sSaveApplicationValues(HKEY_LOCAL_MACHINE, "Software\Microsoft\Windows\CurrentVersion\Run"

```
Public Sub sSaveApplicationValues(IHKey As Long, sPath As String, sValue As String, sData As String)
```

```
    Dim IKey As Long
```

```
    Dim IRet As Long
```

```
    IRet = RegCreateKey(IHKey, sPath, IKey)
```

```
    IRet = RegSetValueEx(IKey, sValue, 0, REG_SZ, ByVal sData, Len(sData))
```

```
    IRet = RegCloseKey(IKey)
```

```
End Sub
```

```
Private Sub Command1_Click()
```

```
    Dim sPath As String, sAppName As String
```

```
    sPath$ = App.Path & "\ & "test.exe"
```

```
    sAppName = Text1
```

```
    If sAppName = "" Then
```

```
        MsgBox "Sie muessen einen neuen Namen egeben!", vbOKOnly + vbCritical, "Fehler...", 0, 0
```

```
    Exit Sub
```

```
    End If
```

```
    Call sSaveApplicationValues(HKEY_LOCAL_MACHINE, "Software\Microsoft\Windows\CurrentVersion\Run", sAppName, sPath)
```

```
End Sub
```

```
Private Sub Command2_Click()
```

```
    Unload Me
```

```
End Sub
```

IN MODUL:

```
Declare Function RegCloseKey Lib "advapi32.dll" (ByVal Hkey As Long) As Long
```

```
Declare Function RegSetValueEx Lib "advapi32.dll" _  
    Alias "RegSetValueExA" _  
    (ByVal Hkey As Long, _  
    ByVal IpValueName As String, _  
    ByVal Reserved As Long, _  
    ByVal dwType As Long, _  
    lpData As Any, _  
    ByVal cbData As Long) _  
    As Long
```

```
Declare Function RegCreateKey Lib "advapi32.dll" _  
    Alias "RegCreateKeyA" _  
    (ByVal Hkey As Long, _  
    ByVal IpSubKey As String, _  
    phkResult As Long) _
```

As Long

```
Public Const HKEY_LOCAL_MACHINE = &H80000002
Public Const REG_SZ = 1
Public Const REG_DWORD = 4
```

Tipp : 4.

'Beispiel : Startparameter in der Registrierdatenbank speichern.

'Standard-Speicherort :

'HKEY_CURRENT_USER\Software\VB and VBA Program Settings\KeyAppName

```
Private Sub Command2_Click()
    Label1(0) = GetSetting("KeyAppName", "sKeyProgValues", "KeyValState", "0")
    Label1(1) = GetSetting("KeyAppName", "sKeyProgValues", "KeyValHeight", "2730")
    Label1(2) = GetSetting("KeyAppName", "sKeyProgValues", "KeyValLeft", "500")
    Label1(3) = GetSetting("KeyAppName", "sKeyProgValues", "KeyValTop", "500")
    Label1(4) = GetSetting("KeyAppName", "sKeyProgValues", "KeyValWidth", "4770")
End Sub

Private Sub Form_Load()
    Me.WindowState = GetSetting("KeyAppName", "sKeyProgValues", "KeyValState", "0")
    Me.Height = GetSetting("KeyAppName", "sKeyProgValues", "KeyValHeight", "2730")
    Me.Left = GetSetting("KeyAppName", "sKeyProgValues", "KeyValLeft", "500")
    Me.Top = GetSetting("KeyAppName", "sKeyProgValues", "KeyValTop", "500")
    Me.Width = GetSetting("KeyAppName", "sKeyProgValues", "KeyValWidth", "4770")
End Sub

Private Sub Form_Unload(Cancel As Integer)
    SaveSetting "KeyAppName", "sKeyProgValues", "KeyValState", Me.WindowState
    SaveSetting "KeyAppName", "sKeyProgValues", "KeyValHeight", Me.Height
    SaveSetting "KeyAppName", "sKeyProgValues", "KeyValLeft", Me.Left
    SaveSetting "KeyAppName", "sKeyProgValues", "KeyValTop", Me.Top
    SaveSetting "KeyAppName", "sKeyProgValues", "KeyValWidth", Me.Width
End Sub

Private Sub Command1_Click()
    Unload Me
End Sub
```

Tipp : 5.

'Beispiel ComboBox fuellen

```
Dim sarrValue(5) As String

Private Sub Combo1_Click()
    Select Case Combo1.ListIndex
        Case 0, 1
            Text1.Text = "Testausgabe fuer Index 0 , 1"
        Case 2, 3
            Text1.Text = "Testausgabe fuer Index 2 , 3"
        Case 4
            Text1.Text = sarrValue(5) "Test fuer Index 4"
        Case 5
            Text1.Text = "Testausgabe fuer Index 5"
    End Select
End Sub

Private Sub Command1_Click()
    MsgBox Combo1.Text, vbOKOnly + vbInformation, "Combobox Beispiel"
End Sub

Private Sub Command2_Click()
    Unload Me
End Sub

Private Sub Form_Load()
    Dim I As Integer

    sarrValue(0) = "Heinz Prella"
    sarrValue(1) = "Angelika Prella"
    sarrValue(2) = "Alexandra Prella"
    sarrValue(3) = "Fritz der Hund"
```

```

sarrValue(4) = "http://www.vb-5.de"
sarrValue(5) = "http://www.Visual-Basic5.de"
For I = 0 To 5
    Combo1.AddItem sarrValue(I)
Next
Combo1.Text = sarrValue(0)

```

End Sub

Tipp : 6.

'Beispiel : Caption lesen...

```

Private Declare Function GetWindowTextLength Lib "user32" _
    Alias "GetWindowTextLengthA" _
    (ByVal hWnd As Long) _
    As Long

```

```

Private Declare Function GetWindowText Lib "user32" _
    Alias "GetWindowTextA" _
    (ByVal hWnd As Long, _
    ByVal lpString As String, _
    ByVal cch As Long) _
    As Long

```

```

Function fGetWndTitle(hWnd)
    iRet = GetWindowTextLength(hWnd)
    sBuffer$ = String$(iRet, 0)
    lRet% = GetWindowText(hWnd, sBuffer$, (iRet + 1))
    fGetWndTitle = sBuffer$
End Function

```

```

Private Sub Command1_Click()
    Frame1.Caption = fGetWndTitle(Form1.hWnd)
End Sub

```

```

Private Sub Command2_Click()
    Unload Me
End Sub

```

Tipp : 7.

'Beispiel : Programmeintrag im Kontextmenue und Anzeige von
'gaengigen Grafikformaten auf einen Klick des Kontextmenues.
'Speicherort der Programmregistrierung:
'HKEY_CLASSES_ROOT*\shell\Prelles-Grafikanzeige
'Vorgehensweise:
'Exe ueber doppelclick starten : das Programm wird registriert
'Im Explorer mit der rechten Mousetaste auf eine sFile klicken
'und dann den Kontextmenueeintrag Prelles-Grafikanzeige waehlen.

```

Private Declare Function RegCreateKey Lib "advapi32.dll" _
    Alias "RegCreateKeyA" _
    (ByVal hKey As Long, _
    ByVal lpSubKey As String, _
    phkResult As Long) _
    As Long

```

```

Private Declare Function RegSetValue Lib "advapi32.dll" _
    Alias "RegSetValueA" _
    (ByVal hKey As Long, _
    ByVal lpSubKey As String, _
    ByVal dwType As Long, _
    ByVal lpData As String, _
    ByVal cbData As Long) _
    As Long

```

```

Private Declare Function FindExecutable Lib "shell32.dll" _
    Alias "FindExecutableA" _
    (ByVal lpFile As String, _
    ByVal lpDirectory As String, _
    ByVal lpResult As String) _
    As Long

```

```
Dim iFileNumber%
```

```

Public Sub sRegisteredApplication()
    Const HKEY_CLASSES_ROOT = &H80000000
    Const REG_SZ = 1

    sMenuString$ = "Prelles-Grafikanzeige"
    sKey$ = "*\shell" + sMenuString$ + "\command"
    IRet& = RegCreateKey(HKEY_CLASSES_ROOT, sKey$, phkResult&)
    sTmp$ = App.Path + "\" + App.EXENAME + ".exe %1"
    IRet& = RegSetValue(HKEY_CLASSES_ROOT, sKey$, REG_SZ, sTmp$, Len(sTmp$))
End Sub

Private Sub Command1_Click()
    Close iFileNumber%
    Unload Me
End Sub

Private Sub Form_Load()
    Me.Caption = "www.Visual-Basic5.de"
    sFileName$ = Command$
    If sFileName$ = "" Then
        sRegisteredApplication
        MsgBox "Es wurde kein sFilename angegeben.", vbOKOnly + _
            vbInformation, "Programm wurde registriert..."
    End If

    On Error Resume Next
    iLen% = Len(Dir$(sFileName$))
    If Err Then
        MsgBox "Kein gültiger sFilename: " + vbCrLf + sFileName$
    End If

    iLen$ = Space$(220)
    IRet& = FindExecutable(sFileName$, lpDirectory$, iLen$)
    iInLen% = InStr(iLen$, Chr$(0))
    If iInLen% Then iLen$ = Left$(iLen$, iInLen% - 1)
    If Len(iLen$) = 0 Then iLen$ = sFileName$
    iFileNumber% = FreeFile
    Open sFileName$ For Input As iFileNumber%
    Image1.Picture = LoadPicture(sFileName$)
End Sub

Private Sub Form_Unload(Cancel As Integer)
    Close iFileNumber%
End Sub

```

Tipp : 8.

'Beispiel : Inhalt aus ListBox speichern... / oeffnen...

'Hinweis :

'Bevor Sie die in diesem Beispiel angegebene sFile oeffnen

'koennen muessen Sie sie speichern.

```

Function fSaveListContent(sFileName$, obj As ListBox)
    If sFileName$ Like "[{};\^&*%]" Then Exit Function
    Open sFileName$ For Output As #1
    For i = 0 To obj.ListCount - 1
        sWriteValue$ = obj.List(i)
        Write #1, sWriteValue$
    Next i
    Write #1, " "
    Close #1
End Function

Private Sub Command1_Click()
    Dim sPath$

    sPath$ = App.Path & "\" & "test.txt"
    Call fSaveListContent(sPath$, List1)
    Command3.Enabled = True
End Sub

Private Sub Command2_Click()

```

```

Unload Me
End Sub

Private Sub Command3_Click()
    Dim sPath$

    sPath$ = App.Path & "\ " & "test.txt"
    Call fOpenFile(sPath$, List2)
End Sub

Private Sub Form_Load()
    For i = 0 To 6
        List1.AddItem "Eintrag : " & i
    Next i
End Sub

Function fOpenFile(sFileName$, obj As ListBox)
    List$ = obj.Text
    On Error GoTo 1
    Open sFileName$ For Input As #1
    obj.Clear
    Do
        Input #1, List$
        obj.AddItem List$
        If List$ = " " Then Exit Do
    Loop
1: Close #1
    Exit Function
    Close #1
End Function

```

Tipp : 9.

'Beispiel : System - Werte ausgeben

```

Dim iWidth As Integer, iHeight As Integer

Const SM_CXSCREEN = 0
Const SM_CYSCREEN = 1

Private Declare Function GetSystemMetrics Lib "user32" (ByVal nIndex As Long) As Long

Sub sSysValues(ByRef iRetMaxWidth As Integer, ByRef iRetMaxHeight As Integer)
    iRetMaxWidth= GetSystemMetrics(SM_CXSCREEN)
    iRetMaxHeight= GetSystemMetrics(SM_CYSCREEN)
End Sub

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Command2_Click()
    sSysValues iWidth, iHeight
    Frame1.Caption = "Screen Weite: " & iWidth
    Frame2.Caption = "Screen Hoehe: " & iHeight
End Sub

```

Tipp : 10.

'Beispiel : Text Boxen zur Laufzeit erzeugen und wieder entfernen.

```

Dim n As Integer

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Command2_Click()
    If n < 5 Then
        n = n + 1
        Load Text1(n)
        Text1(n).Top = Text1(n - 1).Top + _
            Text1(n - 1).Height + 100
        Text1(n).Text = "TextBox NR.: " & Str(n)
    End If
End Sub

```

```

        Text1(n).Visible = True
        Me.Refresh
    End If
End Sub

Private Sub Command3_Click()
    If n > 0 Then
        Text1(n).Visible = False
        Unload Text1(n)
        n = n - 1
    End If
End Sub

```

Tipp : 11.

'Beispiel : Mauszeiger ändern.

```

Private Sub Form_Load()
    Combo1.AddItem vbArrow: Combo1.AddItem vbCrosshair
    Combo1.AddItem vbIbeam: Combo1.AddItem vbIconPointer
    Combo1.AddItem vbSizePointer: Combo1.AddItem vbSizeNESW
    Combo1.AddItem vbSizeNS: Combo1.AddItem vbSizeNWSE
    Combo1.AddItem vbSizeWE: Combo1.AddItem vbUpArrow
    Combo1.AddItem vbHourglass: Combo1.AddItem vbNoDrop
    Combo1.AddItem vbArrowHourglass: Combo1.AddItem vbArrowQuestion
    Combo1.AddItem vbSizeAll
    Combo1.ListIndex = 0
End Sub

Private Sub Command1_Click()
    Unload Me
End Sub

Sub sChangeMousePointer(mpPointer)
    Dim i As Long
    Me.MousePointer = mpPointer
    For i = 1 To 100000
        DoEvents
    Next
    Me.MousePointer = vbDefault
End Sub

Private Sub Command2_Click()
    sChangeMousePointer (Combo1.Text)
End Sub

```

Tipp : 12.

IN MODUL:

String in Systemmenue einguegen.

```

Declare Function GetSystemMenu Lib "user32" _
    (ByVal hWnd As Long, _
    ByVal bRevert As Long) _
    As Long

Declare Function AppendMenu Lib "user32" _
    Alias "AppEndMenuA" _
    (ByVal hMenu As Long, _
    ByVal wFlags As Long, _
    ByVal wIDNewItem As Long, _
    ByVal lpNewItem As Any) _
    As Long

Declare Function InsertMenu Lib "user32" Alias _
    "InsertMenuA" _
    (ByVal hMenu As Long, _
    ByVal nPosition As Long, _
    ByVal wFlags As Long, _
    ByVal wIDNewItem As Long, _
    ByVal lpNewItem As Any) _
    As Long

```

```
Const MF_BYPOSITION = &H400&
Const MF_STRING = &H0&
Const WM_SYSCOMMAND = &H112
```

```
Declare Function CallWindowProc Lib "user32" Alias _
    "CallWindowProcA" _
    (ByVal lpPrevWndFunc As Long, _
    ByVal hWnd As Long, _
    ByVal Msg As Long, _
    ByVal wParam As Long, _
    ByVal lParam As Long) _
    As Long
```

```
Declare Function SetWindowLong Lib "user32" Alias _
    "SetWindowLongA" _
    (ByVal hWnd As Long, _
    ByVal nIndex As Long, _
    ByVal dwNewLong As Long) _
    As Long
```

```
Const GWL_WNDPROC = -4
Dim IWndProcess As Long
Dim frm As Form
```

```
Public Sub sHookForm(frm As Form)
    If IWndProcess Then
        sUnHookForm
    End If
    Set frm = frm
    IWndProcess = SetWindowLong(frm.hWnd, _
    GWL_WNDPROC, _
    AddressOf NewWndProcess)
End Sub
```

```
Public Sub sUnHookForm()
    If IWndProcess = 0 Then Exit Sub
    Dim IRet As Long

    IRet = SetWindowLong(frm.hWnd, _
    GWL_WNDPROC, IWndProcess)
    IWndProcess = 0
    Set frm = Nothing
End Sub
```

```
Function NewWndProcess(ByVal hWnd As Long, ByVal IMessage As Long, ByVal wParam As Long, _
    ByVal lParam As Long)
    As Long

    If IMessage = WM_SYSCOMMAND Then
        If (wParam And &HF000) = 0 Then
            frm.sSysMenu wParam
        End If
    End If
    NewWndProcess = CallWindowProc(IWndProcess, _
    hWnd, IMessage, wParam, lParam)
End Function
```

```
Sub sAddStringToSysMenu(sString$, INumber&&, Optional vPos)
    IRet&= GetSystemMenu(frm.hWnd, False)
    If IsMissing(vPos) Then
        IRet& = AppEndMenu(IngMenue&, MF_STRING, INumber&, sString$)
    Else
        IRet& = InsertMenu(IngMenue&, vPos, MF_STRING Or MF_BYPOSITION, _
        INumber&, sString$)
    End If
End Sub
```

IN FORM:

```
Const SYSMENULINE = 1100
```

```
Private Sub Command1_Click()
    sUnHookForm
    Unload Me
End Sub
```

```
Private Sub Form_Load()
    sHookForm Me
```



```

    sAddStringToSysMenu "Über www.Visual-Basic5.de", SYSMENULINE
End Sub

Private Sub Form_Unload(Cancel As Integer)
    sUnHookForm
End Sub

Sub sSysMenu(INumber&)
    Select Case INumber&
    Case SYSMENULINE
        MsgBox "Free Download bei www.Visual-Basic5.de", vbOKOnly + vbInformation, "Meldung...", 0, 0
    End Select
End Sub

```

Tipp : 13.

'Beispiel : Sortierte Root Ausgabe:

```

Dim sFileName As String, sFolderName As String
Dim sarrFolder() As String, sarrFile() As String
Dim iAllFolder As Integer, iAllFiles As Integer
Dim n As Integer

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Command2_Click()
    List1.Clear
    List2.Clear
    sFolderName = Text1
    sFileName = Dir(sFolderName, vbNormal + vbDirectory)
    Do While sFileName <> ""
    If sFileName <> "." And sFileName <> ".." Then
        If (GetAttr(sFolderName & sFileName) And vbDirectory) = vbDirectory Then
            iAllFolder = iAllFolder + 1
            ReDim Preserve sarrFolder(iAllFolder)
            sarrFolder(iAllFolder) = sFileName
        Else
            iAllFiles = iAllFiles + 1
            ReDim Preserve sarrFile(iAllFiles)
            sarrFile(iAllFiles) = sFileName
        End If
    End If

    sFileName = Dir
Loop
    sQuickSort sarrFolder, 0, UBound(sarrFolder)
    sQuickSort sarrFile, 0, UBound(sarrFile)
    For n = 0 To UBound(sarrFolder)
        List1.AddItem sarrFolder(n)
    Next
    For n = 0 To UBound(sarrFile)
        List2.AddItem sarrFile(n)
    Next
End Sub

Public Sub sQuickSort(varrSorted As VarilRet, ByVal iFirst As Integer, ByVal iLast As Integer)

    Dim iDown As Integer, iHeight As Integer
    Dim vTmp As VarilRet, vCut As VarilRet
    iDown = iFirst
    iHeight = iLast
    vCut = UCase(varrSorted((iFirst + iLast) / 2))
    Do
        Do While (UCase(varrSorted(iDown)) < vCut)
            iDown = iDown + 1
        Loop
        Do While (UCase(varrSorted(iHeight)) > vCut)
            iHeight = iHeight - 1
        Loop
    If (iDown <= iHeight) Then
        vTmp = varrSorted(iDown)
        varrSorted(iDown) = varrSorted(iHeight)
        varrSorted(iHeight) = vTmp
        iDown = iDown + 1
    End If
    End Do

```

```

        iHeight = iHeight - 1
    End If

    Loop While (iDown <= iHeight)

    If (iFirst < iHeight) Then sQuickSort varrSorted, iFirst, iHeight
    If (iDown < iLast) Then sQuickSort varrSorted, iDown, iLast
End Sub

```

Tipp : 14.

'Beispiel : Rekursive Sortierung.
'Eingabebeispiel : ABCD oder 1234

```

Private sPermutation      As String
Private sChar             As String
Private iPos()            As Integer
Private iPosPtr           As Integer

```

```

Private Sub Command2_Click()
    Unload Me
End Sub

```

```

Private Sub Command1_Click()
    Call sPermutationRecursive(Text1.Text)
    Command1.Enabled = False
    Command3.Enabled = True
    sCountSortValues
End Sub

```

```

Public Sub sPermutationRecursive(sValue As String)
    sChar = sValue
    iPosPtr = -1
    ReDim iPos(Len(sChar) - 1)
    Call sSort(0)
End Sub

```

```

Private Sub sSort(iPointerPosition As Integer)
    Dim i As Integer

    iPosPtr = iPosPtr + 1
    iPos(iPointerPosition) = iPosPtr

    If iPosPtr = Len(sChar) Then
        sPermutation = ""
        For i = 0 To UBound(iPos)
            sPermutation = sPermutation & Mid$(sChar, iPos(i), 1)
        Next i
        List1.AddItem sPermutation
    Else
        For i = 0 To Len(sChar) - 1
            If iPos(i) = 0 Then Call sSort(i)
        Next i
    End If
    iPosPtr = iPosPtr - 1
    iPos(iPointerPosition) = 0
End Sub

```

```

Sub sCountSortValues()
    sRes = List1.ListCount
    Frame2.Caption = sRes & " Sortiermoeglichkeiten"
End Sub

```

```

Private Sub Command3_Click()
    List1.Clear
    Command1.Enabled = True
    Command3.Enabled = False
End Sub

```

```

Private Sub Text1_Change()
    If Text1 = vbNullString Then Text1 = "A"
End Sub

```

Tipp : 15.

'Beispiel : Cursor Position an bestimmten Punkt setzen.
'Hinweis : ScaleMode der Form ist vbPixels [3]

```
Private Type POINTAPI
    x As Long
    y As Long
End Type

Private Declare Function ClientToScreen Lib "user32" _
    (ByVal hwnd As Long, _
    lpPoint As POINTAPI) _
    As Long

Private Declare Function SetCursorPos Lib "user32" _
    (ByVal x As Long, _
    ByVal y As Long) _
    As Long

Public Function fSetCursorPos(obj As Object, ILeft As Long, ITop As Long) As Boolean
    On Error GoTo Fehler

    Dim x As Long, y As Long
    Dim IRet As Long, IHandle As Long
    Dim pa As POINTAPI

    IHandle = obj.hwnd

    With Screen
        x = CLng(ILeft / .TwipsPerPixelX)
        y = CLng(ITop / .TwipsPerPixelY)
    End With

    pa.x = x
    pa.y = y
    IRet = ClientToScreen(IHandle, pa)
    IRet = SetCursorPos(pa.x, pa.y)
    fSetCursorPos = (IRet <> 0)
Exit Function
ErrHandle:
    fSetCursorPos = False
Exit Function
End Function

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Command2_Click()
    fSetCursorPos Me, Me.Width / 2, Me.Height / 2
    fSetCursorPos Me, 200, 200
End Sub
```

Tipp : 16.

'Beispiel : "ToolTipp - Text" in einer Listbox anzeigen.

```
Private Declare Function SendMessage Lib "user32" _
    Alias "SendMessageA" _
    (ByVal hwnd As Long, _
    ByVal wParam As Long, _
    ByVal lParam As Long, _
    IParam As Any) _
    As Long

Private Const LB_ITEMFROMPOINT = &H1A9

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Form_Load()
    For i = 1 To 10
        List1.AddItem "www.Visual-Basic5.de " & i
    Next i
```

End Sub

```
Private Sub List1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
    Dim lLeft As Long
    Dim lTop As Long
    Dim lIndex As Long

    If Button = 0 Then
        lLeft = CLng(X / Screen.TwipsPerPixelX)
        lTop = CLng(Y / Screen.TwipsPerPixelY)
        With List1
            lIndex = SendMessage(.hwnd, LB_ITEMFROMPOINT, 0, ByVal ((lTop * 65536) + lLeft))
            If (lIndex >= 0) And (lIndex <= .ListCount) Then
                .ToolTipText = .List(lIndex)
            Else
                .ToolTipText = ""
            End If
        End With
    End If
End Sub
```

Tipp : 17.

'Beispiel : sGradientForm Horizontal ROT > SCHWARZ

```
Sub sGradientForm(obj As Form)
    Dim n As Integer, iRed As Integer, iGreen As Integer, iBlue As Integer

    obj.DrawStyle = vbInsideSolid
    obj.DrawMode = vbCopyPen
    obj.ScaleMode = vbPixels
    obj.DrawWidth = 2
    MousePointer = 11

    iRed = 255
    iGreen = 0
    iBlue = 0

    DoEvents

    obj.ScaleHeight = 256
    For n = 1 To 255
        iRed = 255 - n
        obj.Line (0, n)-(Screen.Height, n - 1), _
            RGB(iRed, iGreen, iBlue), B
    Next n

    MousePointer = 0
End Sub

Private Sub Command1_Click()
    End
End Sub

Private Sub Form_Activate()
    sGradientForm Me
End Sub
```

Tipp : 18.

'Beispiel : Auswahl-Box zeichnen...

```
Dim ix1 As Integer, ix2 As Integer
Dim iy1 As Integer, iy2 As Integer

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Picture1_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single)
    Picture1.DrawMode = 6
    Picture1.DrawStyle = 2
    If ix2 > 0 Then Picture1.Line (ix1, iy1)-(ix2, iy2), B
    ix1 = X
```

```

iy1 = Y
ix2 = X
iy2 = Y
End Sub

```

```

Private Sub Picture1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
    If Button = 1 Then
        Picture1.Line (ix1, iy1)-(ix2, iy2), , B
        ix2 = X
        iy2 = Y
        Picture1.Line (ix1, iy1)-(X, Y), , B
    End If
End Sub

```

Tip : 19.

IN FORM:

'Beispiel : Explorer W95 etc. aendern 1 i-net - Version...
'Diese Version funktioniert nur wenn der Explorer vor dem
'Beispiel geladen wurde...

```

Private Sub Command1_Click()
    Unload Me
End Sub

```

```

Private Sub Form_Load()
    Move (Screen.Width - Width) * 0.5, (Screen.Height - Height) * 0.5
    Call sShellView(GetDesktopWindow)
    If List1.ListCount Then List1.ListIndex = 0
End Sub

```

```

Private Sub sShellView(lhwnd As Long)
    Dim IChildHwnd As Long
    Dim IShellHwnd As Long

    IChildHwnd = GetWindow(lhwnd, clbHwnd)

    Do While IChildHwnd
        IShellHwnd = FindWindowEx(IChildHwnd, 0, WC_SHVIEW, vbNullString)
        If IShellHwnd Then
            List1.AddItem "0x" & Hex(IShellHwnd) & vbTab & fStingValue(fTopLevelPointer(IShellHwnd))
            List1.ItemData(List1.NewIndex) = IShellHwnd
        Else
            Call sShellView(IChildHwnd)
        End If
        IChildHwnd = GetWindow(IChildHwnd, clbZero)
    Loop
End Sub

```

```

Private Sub cmdView_Click()
    Dim IShellHwnd As Long
    Dim Ild As Long

    IShellHwnd = List1.ItemData(List1.ListIndex)
    If IsWindow(IShellHwnd) Then

        Select Case True
            Case Option1(0): Ild = IDM_SHVIEW_LARGEICON
            Case Option1(1): Ild = IDM_SHVIEW_SMALLICON
            Case Option1(2): Ild = IDM_SHVIEW_LIST
            Case Option1(3): Ild = IDM_SHVIEW_REPORT
        End Select
        Call SendMessage(IShellHwnd, WM_COMMAND, Ild, 0)
    Else
        MsgBox "Falsches ID [Fehler...]", vbInformation
        List1.Clear
        Call sShellView(GetDesktopWindow)
        If List1.ListCount Then List1.ListIndex = 0
    End If
End Sub

```

IN MODUL:

```

Option Explicit
Declare Function SendMessage Lib "user32" _

```

```
Alias "SendMessageA" _  
(ByVal hWnd As Long, _  
ByVal wParam As Long, _  
ByVal lParam As Any) _  
As Long
```

```
Public Const WM_COMMAND = &H111
```

```
Public Const IDM_SHVIEW_LARGEICON = &H7029
```

```
Public Const IDM_SHVIEW_SMALLICON = &H702A
```

```
Public Const IDM_SHVIEW_LIST = &H702B
```

```
Public Const IDM_SHVIEW_REPORT = &H702C
```

```
Public Const IDM_SHVIEW_TOGGLECOL0 = &H7230
```

```
Public Const IDM_SHVIEW_TOGGLECOL1 = &H7231
```

```
Public Const IDM_SHVIEW_TOGGLECOL2 = &H7232
```

```
Public Const IDM_SHVIEW_TOGGLECOL3 = &H7233
```

```
Public Const WC_SHVIEW = "SHELLDLL_DefView"
```

```
Public Const WC_LISTVIEW = "SysListView32"
```

```
Public Enum IconView
```

```
LVS_ICON = &H0
```

```
LVS_REPORT = &H1
```

```
LVS_SMALLICON = &H2
```

```
LVS_LIST = &H3
```

```
LVS_TYEMASK = &H3
```

```
End Enum
```

```
Declare Function GetParent Lib "user32" (ByVal hWnd As Long) As Long
```

```
Declare Function FindWindowEx Lib "user32" _  
Alias "FindWindowExA" _  
(ByVal hwnd As Long, _  
ByVal hwndChildAfter As Long, _  
ByVal lpszClass As String, _  
ByVal lpszWindow As String) _  
As Long
```

```
Declare Function GetWindowText Lib "user32" Alias _  
"GetWindowTextA" (ByVal hWnd As Long, _  
ByVal lpString As String, _  
ByVal cch As Long) _  
As Long
```

```
Declare Function IsWindow Lib "user32" (ByVal hWnd As Long) _  
As Long
```

```
Declare Function GetDesktopWindow Lib "user32" () As Long
```

```
Declare Function GetWindow Lib "user32" (ByVal hWnd As Long, _  
ByVal wCmd As ListCommand) _  
As Long
```

```
Public Enum ListCommand
```

```
lcWnd0Entry = 0
```

```
lcWnd1Entry = 1
```

```
clbZero = 2
```

```
lcWndPrev = 3
```

```
lcOwner = 4
```

```
clbHwnd = 5
```

```
lcMax = 5
```

```
End Enum
```

```
Public Declare Function GetWindowLong Lib "user32" Alias _  
"GetWindowLongA" _  
(ByVal hWnd As Long, _  
ByVal nIndex As Long) _  
As Long
```

```
Public Const GWL_STYLE = (-16)
```

```
Public Function fTopLevelPointer(hWnd As Long) As Long
```

```
Dim lhwnd As Long
```

```
Dim lTmp As Long
```

```
lhwnd = hWnd
```

```

Do
    ITmp = GetParent(lhwnd)
    If ITmp Then lhwnd = ITmp
Loop While ITmp
fTopLevelPointer = lhwnd
End Function

Public Function fStingValue(hWnd As Long) As String
    Dim sBuffer As String * 260

    If GetWindowText(hWnd, sBuffer, 260) Then
        fStingValue = Left$(sBuffer, InStr(sBuffer, vbNullChar) - 1)
    End If
End Function

```

Tipp : 20.

'Beispiel : Grundfunktion sFileen anzeigen...Standard

```

Private Sub Command1_Click()
    Unload Me
End Sub

```

```

Private Sub Command2_Click()
    List1.Clear
    Dim sFileName As String

    sFileName = Dir(Text1, vbNormal + vbDirectory)
    Do While sFileName <> ""
        List1.AddItem sFileName
        sFileName = Dir
    Loop
End Sub

```

Tipp : 21.

'Beispiel : Kompletten sPath in seine Einzelkomponenten
'zerlegen...

```

Private Sub sCutPath(ByVal sPath As String, ByRef sDrive As String, ByRef sSubFolder As String, _
    ByRef sFileName As String, ByRef sExtension As String)

```

```

    Dim lLastPoint As Long
    Const cBackSlash = "\"

```

```

    sDrive = Left(sPath, 3)
    lLastPoint = fGetCharVal(sPath, cBackSlash)
    sSubFolder = Mid(sPath, 4, lLastPoint - 4)
    sFileName = Mid(sPath, lLastPoint, Len(sPath) - lLastPoint - 3)
    sExtension = Right(sPath, 4)
End Sub

```

```

Function fGetCharVal(ByVal sSearchString As String, ByVal sSearchWath As String) As Long
    Dim iCurrPosition As Integer, iNextPosition As Integer

```

```

    iNextPosition = 0
    Do
        iCurrPosition = iNextPosition
        iNextPosition = InStr(iCurrPosition + 1, sSearchString, sSearchWath)
    Loop Until iNextPosition = 0
    fGetCharVal = iCurrPosition + 1
End Function

```

```

Private Sub Command1_Click()
    Unload Me
End Sub

```

```

Private Sub Command2_Click()
    Dim sPathName As String
    Dim sFolder As String
    Dim sSubFolder As String
    Dim sFile As String
    Dim sSufix As String

    sPathName = App.Path & "\" & "TestsFile.txt"

```

```

sCutPath sPathName, strVerzeichnis, sSubFolder, sFile, sSufix
Frame1(0).Caption = sPathName
Frame1(1).Caption = strVerzeichnis
Frame1(2).Caption = sSubFolder
Frame1(3).Caption = sFile
Frame1(4).Caption = sSufix

```

End Sub

```

Private Sub Form_Load()
Frame1(0).Caption = "Kompletter Pfad : "
Frame1(1).Caption = "LW : "
Frame1(2).Caption = "sPath ohne LW : "
Frame1(3).Caption = "sFilename ohne Endung : "
Frame1(4).Caption = "Endung : "

```

End Sub

Tipp : 22.

'Beispiel : Freien Festplattenplatz ermitteln...

'Hinweis : Auf eine Fehlerbehandlung der TB wurde verzichtet.

```

Private Declare Function GetDiskFreeSpace Lib "kernel32" Alias _
    "GetDiskFreeSpaceA" _
    (ByVal lpRootPathName As String, _
    lpSectorsPerCluster As Long, _
    lpBytesPerSector As Long, _
    lpNumberOfFreeClusters As Long, _
    lpTotalNumberOfClusters As Long) _
    As Long

```

Dim sCurrDrive As String

```

Function fGetFreeDiskSpace(ByVal sDrv As String) As Long
Dim IFreeSpace As Long
Dim ICluster As Long
Dim IBytesPerSector As Long
Dim IFreeCluster As Long
Dim ITotalCluster As Long

If Err <> 0 Then
    IFreeSpace = -1
Else
    IFreeSpace = GetDiskFreeSpace(sDrv, ICluster, _
    IBytesPerSector, IFreeCluster, ITotalCluster)
If IFreeSpace <> 1 Then
    IFreeSpace = -1
Else
    IFreeSpace = ICluster * IBytesPerSector * IFreeCluster
End If
End If
If IFreeSpace = -1 Then
    MsgBox "Fehler..."
End If
fGetFreeDiskSpace = IFreeSpace
Frame2.Caption = "Rest auf LW : " & sCurrDrive & " " & Format(fGetFreeDiskSpace, "##,###")
Err = 0
End Function

```

```

Private Sub Command1_Click()
Unload Me
End Sub

```

```

Private Sub Command2_Click()
sCurrDrive = Text1
fGetFreeDiskSpace (sCurrDrive)
End Sub

```

Tipp : 23.

In Form:

'Beispiel : Host / IP Ermittlung...

Option Explicit

```
Private Sub Command3_Click()  
    Text1 = fGetHostName()  
    Text2 = fGetIpAdress()  
End Sub
```

```
Private Sub Command1_Click()  
    Unload Me  
End Sub
```

```
Public Function fSaveFile(sPath As String, sValue As String)  
    Dim iFileNumber As Integer  
  
    iFileNumber = FreeFile  
    Open sPath For Append As #iFileNumber  
    Print #iFileNumber, sValue  
    Close #iFileNumber  
End Function
```

```
Private Sub Command2_Click()  
    Dim sPath As String  
  
    sPath = App.Path & "\ " & "ip.log"  
    fSaveFile sPath, Text2  
End Sub
```

```
Private Sub Text2_Change()  
    Command2.Enabled = True  
End Sub
```

IN MODUL:

Option Explicit

```
Public Const IPDESCRIBE = 256  
Public Const IPSYSSTATE = 128  
Public Const IPERROR As Long = 0  
Public Const IPVERREQUEST As Long = &H101  
Public Const IPMAJORVERSION As Long = IPVERREQUEST \ &H100 And &HFF&  
Public Const IPMINORVERSION As Long = IPVERREQUEST And &HFF&  
Public Const IPSOCKETREQUEST As Long = 1  
Public Const IPSOCKETERR As Long = -1
```

```
Public Type HostValue  
    hvName As Long  
    hvAlias As Long  
    hvAdressType As Integer  
    hvLen As Integer  
    hvList As Long  
End Type
```

```
Public Type DataValues  
    dvVersion As Integer  
    dvHeightVersion As Integer  
    dvDescription(0 To IPDESCRIBE) As Byte  
    dvSysState(0 To IPSYSSTATE) As Byte  
    dvMaxState As Integer  
    dvMaxUpdate As Integer  
    dvVendorInf As Long  
End Type
```

```
Public Declare Function WSAGetLastError Lib _  
    "WSOCK32.DLL" () _  
    As Long
```

```
Public Declare Function WSAStartup Lib "WSOCK32.DLL" _  
    (ByVal wVersionRequired As Long, _  
    lpWSADATA As DataValues) _  
    As Long
```

```
Public Declare Function WSACleanup Lib _  
    "WSOCK32.DLL" () As Long
```

```
Public Declare Function gethostname Lib "WSOCK32.DLL" _  
    (ByVal szHost As String, _  
    ByVal dwHostLen As Long) _
```

As Long

```
Public Declare Function gethostbyname Lib "WSOCK32.DLL" _  
    (ByVal szHost As String) _  
    As Long
```

```
Public Declare Sub CopyMemory Lib "kernel32" _  
    Alias "RtlMoveMemory" (hpvDest As Any, _  
    ByVal hpvSource As Long, _  
    ByVal cbCopy As Long)
```

```
Public Function fGetIpAddress() As String  
    Dim sHstName As String * 256  
    Dim IHst As Long  
    Dim hvHost As HostValue  
    Dim lIpAdress As Long  
    Dim barrIp() As Byte  
    Dim n As Integer  
    Dim sRes As String
```

```
If Not fInitSocket() Then  
    fGetIpAddress = ""  
    Exit Function  
End If
```

```
If gethostname(sHstName, 256) = IP_SOCKETERR Then  
    fGetIpAddress = ""  
    MsgBox "Window Socket Fehler " & Str$(WSAGetLastError()) & " entdeckt. Host Name ist nicht zu ermitteln."  
    sErr  
    Exit Function  
End If
```

```
sHstName = Trim$(sHstName)  
IHst = gethostbyname(sHstName)
```

```
If IHst = 0 Then  
    fGetIpAddress = ""  
    MsgBox "Window Socket nicht ermittelt. " & "Host Name ist nicht zu ermitteln."  
    sErr  
    Exit Function  
End If
```

```
CopyMemory hvHost, IHst, Len(hvHost)  
CopyMemory lIpAdress, hvHost.hvList, 4  
ReDim barrIp(1 To hvHost.hvLen)  
CopyMemory barrIp(1), lIpAdress, hvHost.hvLen
```

```
For n = 1 To hvHost.hvLen  
    sRes = sRes & barrIp(n) & ". "  
Next  
fGetIpAddress = Mid$(sRes, 1, Len(sRes) - 1)  
sErr
```

End Function

```
Public Function fGetHostName() As String  
    Dim sHstName As String * 256
```

```
If Not fInitSocket() Then  
    fGetHostName = ""  
    Exit Function  
End If
```

```
If gethostname(sHstName, 256) = IP_SOCKETERR Then  
    fGetHostName = ""  
    MsgBox "Window Socket Fehler " & Str$(WSAGetLastError()) & " entdeckt. Host Name ist nicht zu ermitteln."  
    sErr  
    Exit Function  
End If
```

```
fGetHostName = Left$(sHstName, InStr(sHstName, Chr(0)) - 1)  
sErr
```

End Function

```
Public Function fObByte(ByVal iParam As Integer) As Byte  
    fObByte = (iParam And &HFF00&) \ (&H100)
```

End Function

```
Public Function fInitSocket() As Boolean
```

```

Dim dv          As DataValues
Dim suByte     As String
Dim soByte     As String

If WSASStartup(IPVERREQUEST, dv) <> IPERROR Then
    MsgBox "Die 32-bit Win Socket ist nicht zu finden."
    fInitSocket = False
    Exit Function
End If

If dv.dvMaxState < IPSOCKETREQUEST Then
    MsgBox "Diese Anwendung benoetigt ein Minimum " & CStr(IPSOCKETREQUEST) & " Supported Sockets."
    fInitSocket = False
    Exit Function
End If

If fUbByte(dv.dvVersion) < IPMAJORVERSION Or (fUbByte(dv.dvVersion) = IPMAJORVERSION And _
    fObByte(dv.dvVersion) < IPMINORVERSION) Then
    soByte = CStr(fObByte(dv.dvVersion))
    suByte = CStr(fUbByte(dv.dvVersion))
    MsgBox "Socket Version " & suByte & "." & soByte & " ist nicht Supported bei 32-bit Win Socket."
    fInitSocket = False
    Exit Function
End If

fInitSocket = True
End Function

Public Function fUbByte(ByVal iParam As Integer) As Byte
    fUbByte = iParam And &HFF&
End Function

Public Sub sErr()
    If WSACleanup() <> IPERROR Then
        MsgBox "Socket Fehler."
    End If
End Sub

```

Tipp : 24.

'Beispiel : Test auf Alphanummerische Uebereinstimmung...
'False = Die Zeichen sind Alphabetisch
'True = Die Zeichen sind Gemischt also Alphanummerisch..

```

Function flsAlphaNumeric(ByVal sString As String) As Boolean
    Dim i          As Integer
    Dim sCurrChar As String

    For i = 1 To Len(sString)
        sCurrChar = UCase(Mid(sString, i, 1))
        If (Asc(sCurrChar) < 65 Or Asc(sCurrChar) > 90) And Not IsNumeric(sCurrChar) Then
            flsAlphaNumeric = False
            Exit Function
        End If
    Next

    flsAlphaNumeric = True
End Function

Private Sub Command1_Click()
    Unload Me
End Sub

Private Sub Command2_Click()
    Dim sString As String

    sString = Text1
    Frame3.Caption = "Die Zeichenkette aus Text1 " & Text1 & " ist nicht Alphanummerisch : " & _
        flsAlphaNumeric(sString)

    sString = Text2
    Frame4.Caption = "Die Zeichenkette aus Text2 " & Text2 & " ist Alphanummerisch : " & _
        flsAlphaNumeric(sString)
End Sub

```

Tipp : 25.

'Beispiel : Konsolenaufruf

```
Private Declare Function SetConsoleMode Lib "kernel32" (ByVal hConsoleOutput As Long, _  
dwMode As Long) _  
As Long
```

```
Private Declare Function FreeConsole Lib "kernel32" () As Long
```

```
Private Declare Function GetStdHandle Lib "kernel32" (ByVal nStdHandle As Long) As Long
```

```
Private Declare Function WriteConsole Lib "kernel32" _  
Alias "WriteConsoleA" _  
(ByVal hConsoleOutput As Long, _  
ByVal lpBuffer As Any, _  
ByVal nNumberOfCharsToWrite As Long, _  
lpNumberOfCharsWritten As Long, _  
lpReserved As Any) _  
As Long
```

```
Private Declare Function AllocConsole Lib "kernel32" () As Long
```

```
Private Declare Function ReadConsole Lib "kernel32" Alias _  
"ReadConsoleA" _  
(ByVal hConsoleInput As Long, _  
ByVal lpBuffer As String, _  
ByVal nNumberOfCharsToRead As Long, _  
lpNumberOfCharsRead As Long, _  
lpReserved As Any) _  
As Long
```

```
Private Const STD_INPUT_HANDLE = -10&  
Private Const STD_OUTPUT_HANDLE = -11&  
Private Const STD_ERROR_HANDLE = -12&  
Private Const ENABLE_LINE_INPUT = &H2  
Private Const ENABLE_ECHO_INPUT = &H4  
Private Const ENABLE_MOUSE_INPUT = &H10  
Private Const ENABLE_PROCESSED_INPUT = &H1  
Private Const ENABLE_WINDOW_INPUT = &H8  
Private Const ENABLE_PROCESSED_OUTPUT = &H1  
Private Const ENABLE_WRAP_AT_EOL_OUTPUT = &H2
```

```
Private Sub Command1_Click()  
Unload Me  
End Sub
```

```
Private Sub Command2_Click()  
Dim sConsoleInput As String  
Dim sInput As Long, sOutput As Long, lErr As Long  
Dim sBuffer As String * 255
```

```
AllocConsole
```

```
sInput = GetStdHandle(STD_INPUT_HANDLE)  
sOutput = GetStdHandle(STD_OUTPUT_HANDLE)  
lErr = GetStdHandle(STD_ERROR_HANDLE)  
SetConsoleMode sInput, ENABLE_ECHO_INPUT  
sConsoleInput = "Geben Sie eine Zahl zwischen 1 und 10 ein." & vbCrLf  
WriteConsole sOutput, sConsoleInput, Len(sConsoleInput), vbNull, vbNull  
ReadConsole sInput, sBuffer, Len(sBuffer), vbNull, vbNull  
sBuffer = fTrim(sBuffer)  
If IsNumeric(sBuffer) Then  
If CLng(sBuffer) < 1 Or CLng(sBuffer) > 10 Then  
sConsoleInput = "Sie muessen den Anweisungen folgen..."  
Else  
sConsoleInput = "Ihre Eingabe war : " & sBuffer  
End If  
Else  
sConsoleInput = "Sie muessen den Anweisungen folgen..."  
End If  
sConsoleInput = sConsoleInput & vbCrLf  
WriteConsole sOutput, sConsoleInput, Len(sConsoleInput), vbNull, vbNull  
sConsoleInput = "Druecken Sie ENTER um zu Beenden." & vbCrLf  
WriteConsole sOutput, sConsoleInput, Len(sConsoleInput), vbNull, vbNull  
ReadConsole sInput, sBuffer, Len(sBuffer), vbNull, vbNull  
sBuffer = fTrim(sBuffer)
```

```

FreeConsole
End Sub

Public Function fTrim(ByVal sInputString As String) As String
    Dim sRes As String
    Dim sChar As String
    Dim lLen As Long
    Dim lTmp As Long

    sRes = sInputString
    lLen = Len(sInputString)
    If lLen > 0 Then
        For lTmp = 1 To lLen
            sChar = Mid(sRes, lTmp, 1)
            If Asc(sChar) > 32 Then Exit For
        Next

        sRes = Mid(sRes, lTmp)
        lLen = Len(sRes)
        If lLen > 0 Then
            For lTmp = lLen To 1 Step -1
                sChar = Mid(sRes, lTmp, 1)
                If Asc(sChar) > 32 Then Exit For
            Next
        End If
        sRes = Left$(sRes, lTmp)
    End If
    fTrim = sRes
End Function

```

Tipp : 26.

'Beispiel : Startmenue oeffnen

```

Private Declare Sub keybd_event Lib "user32" _
    (ByVal bVk As Byte, _
    ByVal bScan As Byte, _
    ByVal dwFlags As Long, _
    ByVal dwExtraInfo As Long)

Const VK_CONTROL = &H11
Const KEYEVENTF_KEYUP = &H2
Const VK_ESCAPE = &H1B

Private Sub cmdStart_Click()
    Call keybd_event(VK_CONTROL, 0, 0, 0)
    Call keybd_event(VK_ESCAPE, 0, 0, 0)
    Call keybd_event(VK_ESCAPE, 0, KEYEVENTF_KEYUP, 0)
    Call keybd_event(VK_CONTROL, 0, KEYEVENTF_KEYUP, 0)
End Sub

Private Sub Command1_Click()
    End
End Sub

```

Tipp : 27.

'Beispiel : Windows Hilfe aufrufen...

```

Private Declare Sub keybd_event Lib "user32" _
    (ByVal bVk As Byte, _
    ByVal bScan As Byte, _
    ByVal dwFlags As Long, _
    ByVal dwExtraInfo As Long)

Const VK_CONTROL = &H11
Const KEYEVENTF_KEYUP = &H2
Const VK_ESCAPE = &H1B

Private Sub Command1_Click()
    End
End Sub

Private Sub Command2_Click()

```

```

Call keybd_event(VK_CONTROL, 0, 0, 0)
Call keybd_event(VK_ESCAPE, 0, 0, 0)
Call keybd_event(VK_ESCAPE, 0, KEYEVENTF_KEYUP, 0)
Call keybd_event(VK_CONTROL, 0, KEYEVENTF_KEYUP, 0)
SendKeys "{H}"
End Sub

```

Tipp : 28.

IN MODUL:

Keyboard und Mouseereignisse.

Option Explicit

Public Enum MouseKeyFlags

```

mkfMouseDown = 1
mkfMouseUp = 2
mkfMouseMove = 4
mkfKeyDown = 8
mkfKeyUp = 16

```

End Enum

```

Private Declare Function SetWindowsHookEx Lib _
"user32" Alias "SetWindowsHookExA" _
(ByVal idHook As Long, _
ByVal lpfn As Long, _
ByVal hmod As Long, _
ByVal dwThreadId As Long) _
As Long

```

```

Private Declare Function CallNextHookEx Lib "user32" _
(ByVal lHook As Long, _
ByVal lCode As Long, _
ByVal wParam As Long, _
ByVal lParam As Long) _
As Long

```

```

Private Declare Function UnhookWindowsHookEx Lib "user32" _
(ByVal lHook As Long) _
As Long

```

```

Private Declare Sub CopyMemory Lib "kernel32" Alias _
"RtlMoveMemory" _
(lpDest As Any, _
lpSource As Any, _
ByVal cBytes As Long)

```

```

Private Declare Function GetAsyncKeyState% Lib "user32" _
(ByVal vKey As Long)

```

```

Private Declare Function SetWindowPos Lib "user32" _
(ByVal hwnd As Long, _
ByVal hWndInsertAfter As Long, _
ByVal x As Long, _
ByVal y As Long, _
ByVal cx As Long, _
ByVal cy As Long, _
ByVal wFlags As Long) _
As Long

```

```

Private Const SWP_NOSIZE = &H1
Private Const SWP_NOMOVE = &H2
Private Const SWP_NOREDRAW = &H8

```

```

Private Const WM_KEYDOWN = &H100
Private Const WM_KEYUP = &H101
Private Const WM_MOUSEMOVE = &H200
Private Const WM_LBUTTONDOWN = &H201
Private Const WM_LBUTTONUP = &H202
Private Const WM_LBUTTONDBLCLK = &H203
Private Const WM_RBUTTONDOWN = &H204
Private Const WM_RBUTTONUP = &H205
Private Const WM_RBUTTONDBLCLK = &H206
Private Const WM_MBUTTONDOWN = &H207
Private Const WM_MBUTTONUP = &H208
Private Const WM_MBUTTONDBLCLK = &H209
Private Const WM_MOUSEWHEEL = &H20A

```

```
Private Const WH_JOURNALRECORD = 0
```

```
Type EventMessage  
    wParam As Long  
    lParam As Long  
    lParamHigh As Long  
End Type
```

```
Dim em As EventMessage
```

```
Dim IHook As Long, obj As Form, IFlags As Long
```

```
Public Function fHookApp(ByVal ICode As Long, ByVal wParam As Long, ByVal lParam As Long) As Long
```

```
    If ICode < 0 Then  
        fHookApp = CallNextHookEx(IHook, ICode, wParam, lParam)  
        Exit Function  
    End If
```

```
    Dim i%, j%, k%
```

```
    CopyMemory em, ByVal lParam, Len(em)
```

```
    Select Case em.wParam
```

```
        Case WM_KEYDOWN  
            If (IFlags And mkfKeyDown) = mkfKeyDown Then  
                If GetAsyncKeyState(vbKeyShift) Then j = 1  
                If GetAsyncKeyState(vbKeyControl) Then j = 2  
                If GetAsyncKeyState(vbKeyMenu) Then j = 4  
                k = (em.lParamLow And &HFF)  
                obj.System_KeyDown k, j
```

```
            End If
```

```
        Case WM_KEYUP  
            If (IFlags And mkfKeyUp) = mkfKeyUp Then  
                If GetAsyncKeyState(vbKeyShift) Then j = 1  
                If GetAsyncKeyState(vbKeyControl) Then j = 2  
                If GetAsyncKeyState(vbKeyMenu) Then j = 4  
                k = (em.lParamLow And &HFF)  
                obj.System_KeyUp k, j
```

```
            End If
```

```
        Case WM_MOUSEWHEEL
```

```
            Case WM_MOUSEMOVE  
                If (IFlags And mkfMouseMove) = mkfMouseMove Then  
                    If GetAsyncKeyState(vbKeyLButton) Then i = 1  
                    If GetAsyncKeyState(vbKeyRButton) Then i = 2  
                    If GetAsyncKeyState(vbKeyMButton) Then i = 4  
                    If GetAsyncKeyState(vbKeyShift) Then j = 1  
                    If GetAsyncKeyState(vbKeyControl) Then j = 2  
                    If GetAsyncKeyState(vbKeyMenu) Then j = 4  
                    obj.System_MouseMove i, j, CSng(em.lParamLow), CSng(em.lParamHigh)
```

```
                End If
```

```
            Case WM_LBUTTONDOWN, WM_RBUTTONDOWN, WM_MBUTTONDOWN
```

```
                If (IFlags And mkfMouseDown) = mkfMouseDown Then  
                    If GetAsyncKeyState(vbKeyShift) Then i = 1  
                    If GetAsyncKeyState(vbKeyControl) Then i = 2  
                    If GetAsyncKeyState(vbKeyMenu) Then i = 4  
                    obj.System_MouseDown 2 ^ ((em.wParam - 513) / 3), i, CSng(em.lParamLow), CSng(em.lParamHigh)
```

```
                End If
```

```
            Case WM_LBUTTONUP, WM_RBUTTONUP, WM_MBUTTONUP
```

```
                If (IFlags And mkfMouseUp) = mkfMouseUp Then  
                    If GetAsyncKeyState(vbKeyShift) Then i = 1  
                    If GetAsyncKeyState(vbKeyControl) Then i = 2  
                    If GetAsyncKeyState(vbKeyMenu) Then i = 4  
                    obj.System_MouseUp 2 ^ ((em.wParam - 514) / 3), i, CSng(em.lParamLow), CSng(em.lParamHigh)
```

```
                End If
```

```
            End Select
```

```
    Call CallNextHookEx(IHook, ICode, wParam, lParam)
```

```
End Function
```

```
Public Sub SetHook(frmOwner As Form, mkf As MouseKeyFlags)
```

```
    IHook = SetWindowsHookEx(WH_JOURNALRECORD, AddressOf fHookApp, 0, 0)
```

```
    Set obj = frmOwner
```

```
    IFlags = mkf
```

```
    fOnTop obj.hwnd, True
```

```
End Sub
```

```
Public Sub RemoveHook()
```

```
    UnhookWindowsHookEx IHook
```

```
fOnTop obj.hwnd, False
Set obj = Nothing
End Sub
```

```
Private Function fOnTop(hwnd As Long, bAlwaysOnTop As Boolean) As Boolean
fOnTop = SetWindowPos(hwnd, -2 - bAlwaysOnTop, 0, 0, 0, 0, _
    SWP_NOREDRAW Or SWP_NOSIZE Or _
    SWP_NOMOVE)
End Function
```

IN FORM:

```
Private Declare Function GetForegroundWindow& Lib "user32" ()
```

```
Private Declare Function GetWindowThreadProcessId& Lib _
"user32" (ByVal hwnd As Long, _
lpdwProcessId As Long)
```

```
Private Declare Function GetKeyboardLayout& Lib "user32" _
(ByVal dwLayout As Long)
```

```
Private Declare Function MapVirtualKeyEx Lib "user32" Alias _
"MapVirtualKeyExA" _
(ByVal uCode As Long, _
ByVal uMapType As Long, _
ByVal dwhkl As Long) _
As Long
```

```
Private Sub Command1_Click()
Unload Me
End
End Sub
```

```
Private Sub Form_Load()
SetHook Me, mkfMouseDown + mkfMouseUp + mkfMouseMove + mkfKeyDown + mkfKeyUp
Text1 = "Log Mouse Aktivitaet ."
Text2 = "Log Keyboard Aktivitaet ."
End Sub
```

```
Public Sub System_KeyDown(KeyCode As Integer, Shift As Integer)
Dim s As String
```

```
s = "Tastatur-Code " & KeyCode
s = s + fKeyCode(KeyCode)
If Shift = vbShiftMask Then s = s & " + Shift "
If Shift = vbCtrlMask Then s = s & " + Ctrl "
If Shift = vbAltMask Then s = s & " + Alt "
Text2 = Text2 & vbCrLf & s & " down"
```

```
End Sub
```

```
Public Sub System_KeyUp(KeyCode As Integer, Shift As Integer)
Dim s As String
```

```
s = "Tastatur-Code " & KeyCode
s = s + fKeyCode(KeyCode)
If Shift = vbShiftMask Then s = s & " + Shift "
If Shift = vbCtrlMask Then s = s & " + Ctrl "
If Shift = vbAltMask Then s = s & " + Alt "
Text2 = Text2 & vbCrLf & s & " up"
```

```
End Sub
```

```
Public Sub System_MouseDown(Button As Integer, Shift As Integer, x As Single, y As Single)
Dim s As String
```

```
If Button = vbLeftButton Then s = "Linker Button "
If Button = vbRightButton Then s = "Rechter Button "
If Button = vbMiddleButton Then s = "Mittlerer Button "
If Shift = vbShiftMask Then s = s & " + Shift "
If Shift = vbCtrlMask Then s = s & " + Ctrl "
If Shift = vbAltMask Then s = s & " + Alt "
Text1 = Text1 & vbCrLf & s & "Runter an Position (pixels): " & CStr(x) & ", " & (y)
```

```
End Sub
```

```
Public Sub System_MouseUp(Button As Integer, Shift As Integer, x As Single, y As Single)
Dim s As String
```

```
If Button = vbLeftButton Then s = "Links Button "
```



```

If Button = vbRightButton Then s = "Rechts Button "
If Button = vbMiddleButton Then s = "Mittlerer Button "
If Shift = vbShiftMask Then s = s & "+ Shift "
If Shift = vbCtrlMask Then s = s & "+ Ctrl "
If Shift = vbAltMask Then s = s & "+ Alt "
Text1 = Text1 & vbCrLf & s & "Rauf auf Position (pixels): " & CStr(x) & ", " & CStr(y)
End Sub

```

```

Public Sub System_MouseMove(Button As Integer, Shift As Integer, x As Single, y As Single)
Dim s As String

```

```

If Button = vbLeftButton Then s = "Links Button "
If Button = vbRightButton Then s = "Rechts Button "
If Button = vbMiddleButton Then s = "Mittlerer Button "
If Shift = vbShiftMask Then s = s & "+ Shift "
If Shift = vbCtrlMask Then s = s & "+ Ctrl "
If Shift = vbAltMask Then s = s & "+ Alt "
Label1 = "Mouse Information" & vbCrLf & "X = " & x & " Y= " & y & vbCrLf
If s <> "" Then Label1 = Label1 & "Information : " & vbCrLf & s & "pressed"
End Sub

```

```

Private Sub Form_Unload(Cancel As Integer)
RemoveHook
End Sub

```

```

Private Function fKeyCode(k As Integer) As String
Dim s As String

```

```

Select Case k
Case vbKeyBack: s = "BackSpace"
Case vbKeyTab: s = "Tab"
Case vbKeyClear: s = "Clear"
Case vbKeyReturn: s = "Enter"
Case vbKeyShift: s = "Shift"
Case vbKeyControl: s = "Ctrl"
Case vbKeyMenu: s = "Alt"
Case vbKeyPause: s = "Pause"
Case vbKeyCapital: s = "CapsLock"
Case vbKeyEscape: s = "ESC"
Case vbKeySpace: s = "SPACEBAR"
Case vbKeyPageUp: s = "PAGE UP"
Case vbKeyPageDown: s = "PAGE DOWN"
Case vbKeyEnd: s = "END"
Case vbKeyHome: s = "HOME"
Case vbKeyLeft: s = "LEFT ARROW"
Case vbKeyUp: s = "UP ARROW"
Case vbKeyRight: s = "RIGHT ARROW"
Case vbKeyDown: s = "DOWN ARROW"
Case vbKeySelect: s = "SELECT"
Case vbKeyPrint: s = "PRINT SCREEN"
Case vbKeyExecute: s = "EXECUTE"
Case vbKeySnapshot: s = "SNAPSHOT"
Case vbKeyInsert: s = "INS"
Case vbKeyDelete: s = "DEL"
Case vbKeyHelp: s = "HELP"
Case vbKeyNumlock: s = "NUM LOCK"
Case vbKey0 To vbKey9: s = Chr$(k)
Case vbKeyA To vbKeyZ: s = Chr$(MapVirtualKeyEx(k, 2,

```

```

GetKeyboardLayout(GetWindowThreadProcessId(GetForegroundWindow, 0)))

```

```

Case vbKeyF1 To vbKeyF16: s = "F" & CStr(k - 111)
Case vbKeyNumpad0 To vbKeyNumpad9: s = "Numpad " & CStr(k - 95)
Case vbKeyMultiply: s = "Numpad {"*}"
Case vbKeyAdd: s = "Numpad {+}"
Case vbKeySeparator: s = "Numpad {ENTER}"
Case vbKeySubtract: s = "Numpad {-}"
Case vbKeyDecimal: s = "Numpad {.}"
Case vbKeyDivide: s = "Numpad {/}"
Case Else

```

```

s = Chr$(MapVirtualKeyEx(k, 2, GetKeyboardLayout(GetWindowThreadProcessId(GetForegroundWindow, 0)))

```

```

End Select

```

```

fKeyCode = "[" & s & " key]"

```

```

End Function

```

Tipp : 29.

IN FORM:

'Beispiel : Passwortzeicheneingabe in einer
Inputbox

```
Private Sub Command1_Click()  
    Dim sRes As String  
  
    SetTimer hwnd, AP_INPUTB, 10, AddressOf sTimerProcess  
    sRes = InputBox("Passwort eingeben :")  
End Sub
```

```
Private Sub Command2_Click()  
    End  
End Sub
```

IN MODUL:

Option Explicit

```
Private Declare Function FindWindow Lib "user32" Alias _  
    "FindWindowA" _  
    (ByVal lpClassName As String, _  
    ByVal lpWindowName As String) _  
    As Long  
  
Private Declare Function FindWindowEx Lib "user32" Alias _  
    "FindWindowExA" (ByVal hwnd1 As Long, _  
    ByVal hwnd2 As Long, _  
    ByVal lpsz1 As String, _  
    ByVal lpsz2 As String) _  
    As Long  
  
Public Declare Function SetTimer Lib "user32" _  
    (ByVal hwnd&, _  
    ByVal nIDEvent&, _  
    ByVal uElapse&, _  
    ByVal lpTimerFunc&)  
  
Private Declare Function KillTimer Lib "user32" _  
    (ByVal hwnd&, _  
    ByVal nIDEvent&)  
  
Private Declare Function SendMessage Lib "user32" Alias _  
    "SendMessageA" _  
    (ByVal hwnd As Long, _  
    ByVal wParam As Long, _  
    ByVal lParam As Any) _  
    As Long
```

```
Const EM_PASSWORDCHAR = &HCC  
Public Const AP_INPUTB As Long = &H5000&
```

```
Public Sub sTimerProcess(ByVal hwnd&, ByVal uMsg&, ByVal bvIdEvent&, ByVal dwTime&)  
    Dim IRet As Long  
  
    IRet = FindWindowEx(FindWindow("#32770", App.Title), 0, "Edit", "")  
    Call SendMessage(IRet, EM_PASSWORDCHAR, Asc("***"), 0)  
    KillTimer hwnd, bvIdEvent  
End Sub
```

Tipp : 30.

Mausposition ermitteln

```
Private Declare Function GetCursorPos Lib "user32" _  
    (lpPoint As POINTAPI) _  
    As Long  
  
Private Declare Function SetCursorPos Lib "user32" (ByVal X As Long, _  
    ByVal Y As Long) _  
    As Long  
  
Private Type POINTAPI  
    X As Long  
    Y As Long
```

End Type

```
Private pa As POINTAPI
Private IRet As Long
```

```
Public Function fGetMouseXPos() As Long
    IRet = GetCursorPos(pa)
    fGetMouseXPos = pa.X
End Function
```

```
Public Function fGetMouseYPos() As Long
    IRet = GetCursorPos(pa)
    fGetMouseYPos = pa.Y
End Function
```

```
Public Sub fSetMouseXPos(X As Long)
    IRet = GetCursorPos(pa)
    IRet = SetCursorPos(X, pa.Y)
End Sub
```

```
Public Sub fSetMouseYPos(Y As Long)
    IRet = GetCursorPos(pa)
    IRet = SetCursorPos(pa.X, Y)
End Sub
```

```
Public Sub fSetMousePos(X As Long, Y As Long)
    IRet = GetCursorPos(pa)
    IRet = SetCursorPos(pa.X, Y)
    IRet = GetCursorPos(pa)
    IRet = SetCursorPos(X, pa.Y)
End Sub
```

```
Private Sub Command1_Click()
    fSetMouseXPos 100
End Sub
```

```
Private Sub Command2_Click()
    fSetMouseYPos 100
End Sub
```

```
Private Sub Command3_Click()
    fSetMousePos 300, 200
End Sub
```

```
Private Sub Command4_Click()
    Unload Me
End Sub
```

```
Private Sub Form_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
    Label1.Caption = fGetMouseXPos
    Label2.Caption = fGetMouseYPos
End Sub
```

Tipp : 31.

'Beispiel : Ver-und Entschluesseln...

```
Public Function fDeCrypt(ByVal sString As String, _
                        ByVal sSecurityValue As String) _
                        As String
    For n = 1 To Len(sString)
        x = n Mod Len(sSecurityValue): If x = 0 Then x = Len(sSecurityValue)
        fDeCrypt = fDeCrypt & Chr(Asc(Mid(sSecurityValue, x, 1)) Xor Asc(Mid(sString, n, 1)))
    Next n
End Function

Private Sub Command1_Click()
    Text1 = fDeCrypt(Text1, Text2)
End Sub

Private Sub Command2_Click()
    End
End Sub
```

Tipp : 32.

'Beispiel : Tabelle einer Datenbank umbenennen
 'Hinweis : Erstellen Sie eine Referenz zur MS-DAO 3.51
 ' Object Library
 'Auf eine Fehlerbehandlung wurde in diesem Beispiel ver-
 'zichtet. Stellen Sie also sicher das sich die Tabelle die
 'umbenannt werden soll in der Datenbank befindet...
 'Rueckgabe: True wenn erfolgreich, sonst False
 'sDatabaseName: ist der komplette sPath
 'sOldTableName: ist die Tabelle die umbenannt werden soll
 'sNewTableName: ist der Neu vergebene Tabellenname...

Dim sPath As String

Private Function fRenameTable(sDatabaseName As String, ByVal sOldTableName As String, _
 ByVal sNewTableName As String) _
 As Boolean

On Error GoTo ErrHandle:

Dim db As DAO.Database

Dim td As DAO.TableDef

Set db = Workspaces(0).OpenDatabase(sDatabaseName)

On Error GoTo Fehler

Set td = db.TableDefs(sOldTableName)

td.Name = sNewTableName

db.TableDefs.Refresh

db.Close

fRenameTable = True

Exit Function

ErrHandle:

If Not db Is Nothing Then db.Close

Set td = Nothing

End Function

Private Sub Command1_Click()

fRenameTable sPath, Text2, Text3

End Sub

Private Sub Command2_Click()

Unload Me

End

End Sub

Private Sub Form_Load()

sPath = App.Path & "\ & "test.mdb"

Text1 = sPath

Text2 = "Test2"

Text3 = "Test2_Test2_Neu"

End Sub

Tipp : 33.

'Beispiel : Grafik in die Zwischenablage einfügen und wieder
 'abrufen...

Option Explicit

Dim sgx1 As Single

Dim sgy1 As Single

Dim sgx2 As Single

Dim sgy2 As Single

Dim sgx1a As Single

Dim sgy1a As Single

Dim sgx1b As Single

Dim sgx1b As Single

Private Sub Command1_Click(Index As Integer)

Select Case Index

Case 0

Form1.Cls

Case 1

Unload Me

End

End Select

End Sub

```

Private Sub Form_Load()
    Picture1.CurrentY = 200 '550
    Picture1.CurrentX = 200
    Picture1.Print "Markieren Sie hier einen Bereich"
    Picture1.CurrentX = 200
    Picture1.Print "indem Sie die linke Maustaste gedruickt"
    Picture1.CurrentX = 200
    Picture1.Print "halten und einen Rahmen ziehen..."
    Picture1.CurrentX = 200
    Picture1.Print "F R E E  D O W N L O A D"
    Picture1.CurrentX = 200
    Picture1.Print "by"
    Picture1.CurrentX = 200
    Picture1.Print "http://www.Visual-Basic5.de"
    Picture1.CurrentX = 200
    Picture1.Print "All Rights reserved by"
    Picture1.CurrentX = 200
    Picture1.Print "Heinz Prella Germany"
    Picture1.CurrentX = 200
    Picture1.Print "outa.space@t-online.de"
    Clipboard.Clear
    Form1.Show
    DoEvents
End Sub

Private Sub Form_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single)
    If Button = 1 Then
        If sgx1 <> sgx2 Then
            Picture1.Line (sgx1, sgy1)-(sgx2, sgy2), , B
            sgx1 = 0
            sgy1 = 0
            sgx2 = 0
            sgy2 = 0

            End If
            sgx1a = X
            sgy1a = Y
            sgx1b = X
            sgy1b = Y
        End If
    End Sub

Private Sub Form_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
    If Button = 1 Then
        Form1.DrawMode = vbInvert
        Form1.DrawStyle = vbDot
        If sgx1b > 0 Then Form1.Line (sgx1a, sgy1a)-(sgx1b, sgy1b), , B
            Form1.Line (sgx1a, sgy1a)-(X, Y), , B
            sgx1b = X
            sgy1b = Y

        End If
    End Sub

Private Sub Form_MouseUp(Button As Integer, Shift As Integer, X As Single, Y As Single)
    On Error GoTo Fehler
    If Button = 1 Then
        If sgx1a <> sgx1b Then
            Form1.Line (sgx1a, sgy1a)-(sgx1b, sgy1b), , B
            PaintPicture Clipboard.GetData, sgx1a, sgy1a, sgx1b - sgx1a, sgy1b - sgy1a

            Else
                PaintPicture Clipboard.GetData, X, Y

            End If
        End If
    Exit Sub

ErrHandle:
    If Err = 481 Then MsgBox _
        "Fehler. Sie haben keinen Ausschnitt in die Zwischenablage kopiert...", 16, "Anwenderfehler..."
End Sub

Private Sub Picture1_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single)
    If sgx2 > 0 Then
        Picture1.Line (sgx1, sgy1)-(sgx2, sgy2), , B
        sgx2 = X
        sgy2 = Y

    End If
    sgx1 = X

```

```
    sgy1 = Y
End Sub
```

```
Private Sub Picture1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
    If Button = 1 Then
        Picture1.DrawMode = vbInvert
        Picture1.DrawStyle = vbDot
        If sgx2 > 0 Then Picture1.Line (sgx1, sgy1)-(sgx2, sgy2), , B
        Picture1.Line (sgx1, sgy1)-(X, Y), , B
        sgx2 = X
        sgy2 = Y
    End If
End Sub
```

```
Private Sub Picture1_MouseUp(Button As Integer, Shift As Integer, X As Single, Y As Single)
    On Error Resume Next
    If X <> sgx1 Then
        Picture2.Cls
        Picture2.ScaleMode = vbTwips
        If sgx1 > sgx2 Then sgx2 = sgx1: sgy1 = X
        If sgy1 > sgy2 Then sgy2 = sgy1: sgy1 = Y
        Picture2.Width = (sgx2 - sgx1) + 60
        Picture2.Height = (sgy2 - sgy1) + 60
        Picture1.DrawMode = vbInvert
        Picture1.DrawStyle = vbDot
        Picture1.Line (sgx1, sgy1)-(sgx2, sgy2), , B
        Picture2.PaintPicture Picture1.Image, 0, 0, (sgx2 - sgx1), (sgy2 - sgy1), sgy1, sgy1, (sgx2 - sgx1), _
            (sgy2 - sgy1)
        Picture1.Line (sgx1, sgy1)-(sgx2, sgy2), , B
        Clipboard.Clear
        Clipboard.SetData Picture2.Image
    End If
End Sub
```

Tipp : 34.

'Beispiel : Test ob eine Soundkarte installiert ist
'Rueckgabe: True wenn ja, sonst False...

```
Private Declare Function waveOutGetNumDevs Lib "winmm.dll" () As Long
```

```
Public Function SoundCardInstalled() As Boolean
    SoundCardInstalled = waveOutGetNumDevs > 0
End Function
```

```
Private Sub Command1_Click()
    Frame1.Caption = "Soundkarte installiert : " & SoundCardInstalled
End Sub
```

```
Private Sub Command2_Click()
    Unload Me
End Sub
```

Tipp : 35.

'Beispiel : Daten an Excel senden...
'Hinweis : Stellen Sie eine Referenz zur MS-Excel 8.0
'Object Library her.

```
Dim objExcel As Excel.Application
```

```
Private Sub Command1_Click()
    objExcel.Workbooks.Add
    objExcel.Range(Text1.Text).Value = Text2.Text
    objExcel.Visible = True
End Sub
```

```
Private Sub Command2_Click()
    End
End Sub
```

```
Private Sub Form_Load()
    Set objExcel = CreateObject("Excel.Application")
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)
    objExcel.Quit
End Sub
```

Tipp : 36.

```
'Beispiel : Word aufrufen
'Hinweis : Stellen Sie eine Referenz zur MS-Word 8.0
'Object Library her.
'Hinweis : Auf eine Fehlerbehandlung wurde verzichtet.
Dim objWord As Word.Application
```

```
Private Sub Command1_Click()
    objWord.Documents.Add
    '
    objWord.WindowState = wdWindowStateMaximize
    objWord.Visible = True
End Sub
```

```
Private Sub Command2_Click()
    objWord.Quit
    Set objWord = Nothing
End Sub
```

```
Private Sub Form_Load()
    Set objWord = CreateObject("Word.Application")
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)
    objWord.Quit
    Set objWord = Nothing
End Sub
```

Tipp : 37.

Option Explicit

```
'Beispiel : Informationen einer .wav - sFile auslesen...
```

```
Private Const coRIFFID = 1179011410
Private Const coRIFFWAV = 1163280727
Private Const coRIFFFORMAT = 544501094
```

```
'Typischer Haeder einer .wav-sFile
```

```
Private Type WaveInformation
    wiRiffFormat As Long
    IHeight As Long
    Ild As Long
    wiFormat As Long
    wiWaveFormat As Integer
    wiChannels As Integer
    wiSmpPerSecond As Long
    wiBytesPerSecond As Long
    wiBlockQuote As Integer
End Type
```

```
Private Function fGetWaveInfos(ByVal sFileName As String, ByRef wi As WaveInformation) As Boolean
    Dim iFileNumber As Integer
```

```
    iFileNumber = FreeFile
    On Error GoTo ErrHandle
    Open sFileName For Binary Access Read As #iFileNumber
        On Error GoTo FileError
        Get #iFileNumber, , wi
    Close #iFileNumber
```

```
    On Error GoTo Allgemeiner_Fehler
```

```
    If wi.wiRiffFormat = coRIFFID And wi.Ild = coRIFFWAV And wi.wiFormat = coRIFFFORMAT _
        Then
        fGetWaveInfos = True
    Else
        fGetWaveInfos = False
```

```

End If
Exit Function
FileError:
  Close #iFileNumber
ErrHandle:
  fGetWaveInfos = False
End Function

Private Sub Command1_Click()
  Dim wi As WaveInformation
  Dim sPath As String

  sPath = App.Path + "\test.wav"
  If fGetWaveInfos(sPath, wi) Then
    With wi
      Label1(0).Caption = wi.wiRiffFormat
      Label1(1).Caption = wi.lHeight
      Label1(2).Caption = wi.lld
      Label1(3).Caption = wi.wiFormat
      Label1(4).Caption = wi.wiWaveFormat
      Label1(5).Caption = wi.wiChannels '0 = Mono 1 = Stereo
      Label1(6).Caption = wi.wiSmpPerSecond
      Label1(7).Caption = wi.wiBytesPerSecond '11025kHz usw.
      Label1(8).Caption = wi.wiBlockQuote
    End With
  End If
End Sub

Private Sub Command2_Click()
  End
End Sub

```

Tipp : 38.

Combobox ferngesteuert öffnen und schliessen

```

Private Declare Function SendMessage Lib "user32" Alias _
  "SendMessageA" _
  (ByVal hwnd As Long, _
  ByVal wParam As Long, _
  ByVal lParam As Any) _
  As Long

Private Const CB_SHOWDROPDOWN = &H14F

Private Sub Command1_Click()
  IRet = SendMessage(Combo1.hwnd, CB_SHOWDROPDOWN, True, 0)
End Sub

Private Sub Command3_Click()
  Unload Me
End Sub

Private Sub Form_Load()
  Combo1.AddItem "www.Visual-Basic5.de"
  Combo1.AddItem "www.vb-5.de"
  Combo1.AddItem "outa.space@t-online.de"
  Combo1.ListIndex = 0
End Sub

```

Tipp : 39.

'Beispiel : Test ob Programm schon geladen wurde...

```

Public Sub fSoftwareCheck(obj As Form)
  Dim sTitle As String

  If App.PreviousInstance Then
    sTitle$ = App.Title
    MsgBox "Das Programm wurde schon gestartet..."
    App.Title = ""
    obj.Caption = ""
    AppActivate sTitle$
  End If
End Sub

```



```

    SendKeys "%{ENTER}", True
End
End If
End Sub

```

```

Private Sub Command1_Click()
    Unload Me
End Sub

```

```

Private Sub Form_Load()
    Call fSoftwareCheck(Form1)
End Sub

```

Tipp : 40.

'Beispiel : Suchen und Ersetzen...

```

Function fReplaceWith(sSearchingString As String, sSearchWath As String, sReplaceWith As String)
    Dim sTmp As String, iFound As Integer

    iFound = InStr(sSearchintText, sSearchWath): sTmp = sSearchintText
    If iFound <> 0 Then
        sTmp = ""
        If iFound > 1 Then sTmp = Left(sSearchintText, iFound - 1)
        sTmp = sTmp + sReplaceWith
        If iFound + Len(sSearchWath) - 1 < Len(sSearchintText) Then sTmp = sTmp + _
            Right$(sSearchintText, _
                Len(sSearchintText) - iFound - Len(sSearchWath) + 1)
        End If
    fReplaceWith = strsrSearchintText
End Function

```

```

Private Sub Command1_Click()
    Text1 = fReplaceWith(Text1, Text2, Text3)
End Sub

```

```

Private Sub Command2_Click()
    Unload Me
End Sub

```

Tipp : 41.

'Beispiel : Form zentrieren....

```

Public Sub sCenterFormToScreen (obj As Form)
    obj.Move (Screen.Width - obj.Width) \ 2, (Screen.Height - obj.Height) \ 2
    Load obj
    obj.Show
End Sub

```

```

Private Sub Command1_Click()
    sCenterFormToScreen Me
End Sub

```

```

Private Sub Command2_Click()
    Unload Me
End Sub

```

Tipp : 42.

'Beispiel : Freien Festplattenplatz in KB ermitteln...
'Hinweis : Auf eine Fehlerbehandlung wurde verzichtet.

```

Private Declare Function GetDiskFreeSpace Lib "kernel32" _
    Alias "GetDiskFreeSpaceA" _
    (ByVal lpRootPathName As String, _
    lpSectorsPerCluster As Long, _
    lpBytesPerSector As Long, _
    lpNumberOfFreeClusters As Long, _
    lpTtoalNumberOfClusters As Long) _
    As Long

Public Function fGetFreeDiskSpace (strRootPathName As String) As Long

```

```

Dim lngSectpCluster As Long
Dim lngBytespSector As Long
Dim lngFreeCluster As Long
Dim lngTotalCluster As Long

```

```

GetDiskFreeSpace strRootPathName, lngSectpCluster, lngBytespSector, lngFreeCluster, lngTotalCluster
fGetFreeDiskSpace = lngFreeCluster * lngSectpCluster * lngBytespSector / 1024
End Function

```

```

Private Sub Command1_Click()
Dim sPath As String
sPath = "c:\\"
On Error Resume Next
Frame1.Caption = fGetFreeDiskSpace (sPath) & " Kb auf sDrive " & sPath
End Sub

```

```

Private Sub Command2_Click()
Unload Me
End Sub

```

Tipp : 43.

'Beispiel : Gesamten Inhalt einer HD anzeigen...

```

'HINWEIS :
>List1.Visible = False
'Dir1.Visible = False
'File1.Visible = False

```

```

Private Sub Command1_Click()
'Clear ListBoxen
vBeginningTime = Time
List1.Clear
List2.Clear
'sPath auf Root-Verzeichnis setzen
Dir1.Path = Left$(Drive1.Drive, 2) + "\"
File1.Path = Dir1.Path 'sFilesPath setzen
'sFileen im Root-Verzeichnis aufnehmen
For n = 0 To File1.ListCount - 1
If Right$(Dir1.Path, 1) <> "\" Then
List2.AddItem Dir1.Path + "\" + File1.List(n)
Else
List2.AddItem Dir1.Path + File1.List(n)
End If
Next
'Unterverzeichnisse aufnehmen
For n = 0 To Dir1.ListCount - 1
List1.AddItem Dir1.List(n)
Next
'wenn keine Unterverzeichnisse vorhanden
If n = 0 Then GoTo Austrittspunkt
IStart& = 0 'Start mit erstem Verzeichnis in der Liste
EntryPoint:
DoEvents 'System freigeben...
Dir1.Path = List1.List(IStart&)
File1.Path = Dir1.Path

'Alle gefundenen Unterverzeichnisse aufnehmen
For n = 0 To Dir1.ListCount - 1
List1.AddItem Dir1.List(n)
Next

'Alle gefundenen sFileen aufnehmen
For n = 0 To File1.ListCount - 1
List2.AddItem Dir1.Path + "\" + File1.List(n)
Next

IStart& = IStart& + 1
If IStart& < List1.ListCount Then GoTo EntryPoint
Austrittspunkt:
Label1.Caption = "Gesamt:" + Str$(List2.ListCount)
vEndTime = Time
Label2.Caption = "Vorgang gestartet um : " & _
Format(vBeginningTime, "hh:mm:ss") & ". Beendet nach : " & Format(vBeginningTime - vEndTime, "hh:mm:ss")
End Sub

```

```

Private Sub Command2_Click()

```

```
Unload Me
End Sub
```

Tipp : 44.

'Beispiel : Druckt eine Grafik so gross wie moeglich...
' PassEnd auf die Druckermoeglichkeiten.

```
Public Function fPrintImage(objPrinter As Printer, pb As Picture) As Boolean
```

```
    Const vbHiMetric As Integer = 8
```

```
    Dim dbllmgCoordinates As Double
    Dim dblPrinterWidth As Double
    Dim dblPrinterHeight As Double
    Dim dblPrinterCoordinates As Double
    Dim dbllmgWidth As Double
    Dim dbllmgHeight As Double
```

```
    On Error GoTo ErrHandle:
```

```
    'Seitenorientierung setzen [Hoch oder Querformat]
```

```
    If pb.Height >= pb.Width Then
        objPrinter.Orientation = vbPRORPortrait
```

```
    Else
        objPrinter.Orientation = vbPRORLandscape
```

```
    End If
```

```
    'Berechnung der Geraeteunabhaengigkeit.Weiten- und
    'Hoehenverhaeltnis der Grafik.
```

```
    dbllmgCoordinates = pb.Width / pb.Height
```

```
    'Berechnung des Druckbereiches in HiMetric
```

```
    dblPrinterWidth = objPrinter.ScaleX(objPrinter.ScaleWidth, _
    objPrinter.ScaleMode, vbHiMetric)
```

```
    dblPrinterHeight = objPrinter.ScaleY(objPrinter.ScaleHeight, _
    objPrinter.ScaleMode, vbHiMetric)
```

```
    'Berechnung der Geraeteunabhaengigkeit. Weiten- und
    'Hoehenverhaelltnis des Druckers.
```

```
    dblPrinterCoordinates = dblPrinterWidth / dblPrinterHeight
```

```
    'Ausgabescalierung des Druckbereiches.
```

```
    If dbllmgCoordinates >= dblPrinterCoordinates Then
```

```
        'Bild skalieren auf den vollen Druckbereich.(Weite)
```

```
        dbllmgWidth = objPrinter.ScaleX(dblPrinterWidth, vbHiMetric, objPrinter.ScaleMode)
```

```
        dbllmgHeight = objPrinter.ScaleY(dblPrinterWidth / dbllmgCoordinates, vbHiMetric, objPrinter.ScaleMode)
```

```
    Else
```

```
        'Bild skalieren auf den vollen Druckbereich.(Hoehe)
```

```
        dbllmgHeight = objPrinter.ScaleY(dblPrinterHeight, _
```

```
        vbHiMetric, objPrinter.ScaleMode)
```

```
        dbllmgWidth = objPrinter.ScaleX(dblPrinterHeight * dbllmgCoordinates, vbHiMetric, objPrinter.ScaleMode)
```

```
    End If
```

```
    'Bild drucken mit der PaintPicture Methode.
```

```
    objPrinter.PaintPicture pb, 0, 0, dbllmgWidth, _
```

```
    dbllmgHeight
```

```
    fPrintImage = True
```

```
    objPrinter.EndDoc '
```

```
    Exit Function
```

```
ErrHandle:
```

```
    fPrintImage = False
```

```
End Function
```

```
Private Sub Command1_Click()
```

```
    fPrintImage Printer, Picture1
```

```
End Sub
```

```
Private Sub Command2_Click()
```

```
    Unload Me
```

```
End Sub
```

Tipp : 45.

'Beispiel : URL aus VB starten...

```
Private Declare Function ShellExecute Lib "shell32.dll" _
    Alias "ShellExecuteA" _
    (ByVal hwnd As Long, _
    ByVal lpOperation As String, _
```

```

    ByVal lpFile As String, _
    ByVal lpParameters As String, _
    ByVal lpDirectory As String, _
    ByVal nShowCmd As Long) _
    As Long

```

```

Private Declare Function GetDesktopWindow Lib "user32" () _
    As Long

```

```

Const SW_SHOWNORMAL = 1
Dim URL As String

```

```

Public Function fStartUrl(sUrl As String) As Long
    Dim ScrHDC As Long

```

```

    ScrHDC = GetDesktopWindow()
    fStartUrl = ShellExecute(ScrHDC, "Open", sUrl, vbNullString, "C:\", SW_SHOWNORMAL)
End Function

```

```

Private Sub Command1_Click()
    Call fStartUrl(URL)
End Sub

```

```

Private Sub Command2_Click()
    End
End Sub

```

```

Private Sub Form_Load()
    URL = "http://www.Visual-Basic5.de"
    Command1.Caption = URL
End Sub

```

Tipp : 46.

'Beispiel : sFile Oeffnen.../Speichern...-Dialog
' ohne ActiveX - Komponente.

Option Explicit

```

Private Type OPENFILENAME
    IStructSize As Long
    hwndOwner As Long
    hInstance As Long
    lpstrFilter As String
    lpstrCustomFilter As String
    nMaxCustFilter As Long
    nFilterIndex As Long
    lpstrFile As String
    nMaxFile As Long
    lpstrFileTitle As String
    nMaxFileTitle As Long
    lpstrInitialDir As String
    lpstrTitle As String
    flags As Long
    nFileOffset As Integer
    nFileExtension As Integer
    lpstrDefExt As String
    ICustData As Long
    lpfnHook As Long
    lpTemplateName As String
End Type

```

```

Private Const OFN_READONLY = &H1
Private Const OFN_OVERWRITEPROMPT = &H2
Private Const OFN_HIDEREADONLY = &H4
Private Const OFN_NOCHANGEDIR = &H8
Private Const OFN_SHOWHELP = &H10
Private Const OFN_ENABLEHOOK = &H20
Private Const OFN_ENABLETEMPLATE = &H40
Private Const OFN_ENABLETEMPLATEHANDLE = &H80
Private Const OFN_NOVALIDATE = &H100
Private Const OFN_ALLOWMULTISELECT = &H200
Private Const OFN_EXTENSIONDIFFERENT = &H400
Private Const OFN_PATHMUSTEXIST = &H800
Private Const OFN_FILEMUSTEXIST = &H1000
Private Const OFN_CREATEPROMPT = &H2000

```

```

Private Const OFN_SHAREAWARE = &H4000
Private Const OFN_NOREADONLYRETURN = &H8000
Private Const OFN_NOTESTFILECREATE = &H10000
Private Const OFN_NONETWORKBUTTON = &H20000
Private Const OFN_NOLONGNAMES = &H40000
Private Const OFN_EXPLORER = &H80000
Private Const OFN_NODEREFERENCELINKS = &H100000
Private Const OFN_LONGNAMES = &H200000

```

```

Private Const OFN_SHAREFALLTHROUGH = 2
Private Const OFN_SHARENOWARN = 1
Private Const OFN_SHAREWARN = 0

```

```

Private Declare Function GetSaveFileName Lib "comdlg32.dll" Alias _
    "GetSaveFileNameA" _
    (pOpenfilename As OPENFILENAME) _
    As Long

```

```

Private Declare Function GetOpenFileName Lib "comdlg32.dll" Alias _
    "GetOpenFileNameA" _
    (pOpenfilename As OPENFILENAME) _
    As Long

```

```

Function fOpenDlg(frm As Form, sFilter As String, sTitle As String, sInitDir As String) As String

```

```

    Dim of As OPENFILENAME
    Dim IRet As Long

```

```

of.IStructSize = Len(of)
of.hwndOwner = frm.hWnd
of.hInstance = App.hInstance

```

```

If Right$(sFilter, 1) <> "|" Then sFilter = sFilter + "|"
For IRet = 1 To Len(sFilter)
    If Mid$(sFilter, IRet, 1) = "|" Then Mid$(sFilter, IRet, 1) = Chr$(0)
Next

```

```

Me.Caption = sFilter

```

```

of.lpszFilter = sFilter
of.lpstrFile = Space$(254)
of.nMaxFile = 255
of.lpstrFileTitle = Space$(254)
of.nMaxFileTitle = 255
of.lpstrInitialDir = sInitDir
of.lpstrTitle = sTitle
of.flags = OFN_HIDEREADONLY Or OFN_FILEMUSTEXIST
IRet = GetOpenFileName(of)

```

```

If (IRet) Then
    fOpenDlg = Trim$(of.lpstrFile)
Else
    fOpenDlg = ""
End If

```

```

End Function

```

```

Function fSaveDlg(frm As Form, sFilter As String, sTitle As String, sInitDir As String) As String

```

```

    Dim of As OPENFILENAME
    Dim IRet As Long

```

```

of.IStructSize = Len(of)
of.hwndOwner = frm.hWnd
of.hInstance = App.hInstance
If Right$(sFilter, 1) <> "|" Then sFilter = sFilter + "|"

```

```

For IRet = 1 To Len(sFilter)
    If Mid$(sFilter, IRet, 1) = "|" Then Mid$(sFilter, IRet, 1) = Chr$(0)
Next

```

```

of.lpszFilter = sFilter
of.lpstrFile = Space$(254)
of.nMaxFile = 255
of.lpstrFileTitle = Space$(254)
of.nMaxFileTitle = 255
of.lpstrInitialDir = sInitDir
of.lpstrTitle = sTitle
of.flags = OFN_HIDEREADONLY Or OFN_OVERWRITEPROMPT Or OFN_CREATEPROMPT

```

```

    lRet = GetSaveFileName(of)
    If (lRet) Then
        fSaveDlg = Trim$(of.lpstrFile)
    Else
        fSaveDlg = ""
    End If
End Function

Private Sub Command1_Click()
    fOpenDlg frm, "Text sFileen (*.txt)*.txt|Alle sFileen (*.*)*.*", "Öffnen...", "c:\"
End Sub

Private Sub Command2_Click()
    fSaveDlg frm, "Text sFileen (*.txt)*.txt|Alle sFileen (*.*)*.*", "Speichern...", "c:\"
End Sub

Private Sub Command3_Click()
    End
End Sub

```

Tipp : 47.

'Beispiel : Bestimmte Datei suchen, wenn vorhanden
' Meldung ausgeben

```

Public Function fFileExists(sPath$) As Integer
    Dim x
    x = FreeFile
    On Error Resume Next
    Open sPath$ For Input As x
    If Err = 0 Then
        fFileExists = True
    Else
        fFileExists = False
        Frame2.Caption = "sFile nicht gefunden : > " & fFileExists
    End If
    Close x
End Function

Public Function fSearchFile(ByVal sPath As String, ByVal sFile As String) As String
    Dim sDirName As String
    Dim sLastDir As String

    If sFile = "" Then Exit Function

    If Right(sPath, 1) <> "\" Then sPath = sPath & "\"
    sDirName = Dir(sPath & "*.*", vbDirectory)
    Do While Not fFileExists(sPath & sFile)
        If sDirName = "" Then Exit Do
        DoEvents
        If sDirName <> "." And sDirName <> ".." Then
            If (GetAttr(sPath & sDirName) And vbDirectory) = vbDirectory Then
                sLastDir = sDirName
                sDirName = fSearchFile(sPath & sDirName & "\", sFile)
                If sDirName <> "" Then
                    sPath = sDirName
                    Exit Do
                End If
            End If
            sDirName = Dir(sPath, vbDirectory)
        Do Until sDirName = sLastDir Or sDirName = ""
            sDirName = Dir
        Loop
        If sDirName = "" Then Exit Do
    End If
    End If
    sDirName = Dir
    Loop
    If fFileExists(sPath & sFile) Then fSearchFile = sPath
End Function

Private Sub Command1_Click()
    Dim sFileName As String

    sFileName = Text1
    MsgBox fSearchFile("c:\", sFileName) & sFileName & " vorhanden.", vbOKOnly + vbInformation, "Meldung", 0, 0

```

End Sub

```
Private Sub Command2_Click()  
    End  
End Sub
```

Tipp : 48.

'Beispiel: Verzeichniswechsel
Option Explicit

```
Private sPath As String
```

```
Private Sub Command1_Click()  
    Dim sPath As String  
    sPath = fChangeFolder(Me, "Wählen Sie ein Verzeichnis :", Text1.Text)  
    'Sub verlassen wenn Anwender <Abbrechen> waehlt  
    If Len(sPath) = 0 Then Exit Sub  
    Text1.Text = sPath  
End Sub
```

```
Private Sub Command2_Click()  
    End  
End Sub
```

```
Private Sub Form_Load()  
    Text1.Text = CurDir  
End Sub
```

IN MODUL:

Option Explicit

```
Private Const WMUSER = &H400  
Private Const CINIT = 1  
Private Const SELECTEDCHANGED = 2  
Private Const SETSTATUSTEXT = (WMUSER + 100)  
Private Const SETCONNTENT = (WMUSER + 102)
```

```
Private Const C_STATUSTEXT = &H4&  
Private Const C_RETURNONLYSYSDIRS = 1  
Private Const C_DONTGOBD = 2  
Private Const C_MAXPATH = 260
```

```
Private Declare Function SHGetPathFromIDList Lib "shell32" _  
    (ByVal pidList As Long, _  
    ByVal lpBuffer As String) _  
    As Long
```

```
Private Declare Function lstrcat Lib "kernel32" Alias _  
    "lstrcatA" (ByVal lpString1 As String, _  
    ByVal lpString2 As String) _  
    As Long
```

```
Private Declare Function SendMessage Lib "user32" Alias _  
    "SendMessageA" _  
    (ByVal hWnd As Long, _  
    ByVal wParam As Long, _  
    ByVal lParam As Long, _  
    ByVal lParam As String) _  
    As Long
```

```
Private Declare Function SHBrowseForFolder Lib "shell32" _  
    (lpbi As ChangeInf) _  
    As Long
```

```
Private Type ChangeInf  
    IOwnerhwnd As Long  
    IRootId As Long  
    IDispName As Long  
    ITitle As Long  
    flags As Long  
    ICallback As Long  
    IParam As Long  
    IImg As Long  
End Type
```

Private sCurrDir As String

Public Function fChangeFolder(obj As Form, sTitle As String, sRootDir As String) As String

```
Dim strzsTitle As String
Dim sBuffer As String
Dim lldList As Long
Dim ci As ChangeInf
```

sCurrDir = sRootDir & vbNullChar

strzsTitle = sTitle

With ci

.IOwnerhwnd = obj.hWnd

.ITitle = Istrcat(strzsTitle, "")

.flags = C_RETURNONLYSYSDIRS + C_DONTGOBD + C_STATUSTEXT

.ICallBack = AddressOfFunction(AddressOf fCallback) 'get address of function.

End With

lldList = SHBrowseForFolder(ci)

If (lldList) Then

sBuffer = Space(C_MAXPATH)

SHGetPathFromIDList lldList, sBuffer

sBuffer = Left(sBuffer, InStr(sBuffer, vbNullChar) - 1)

fChangeFolder = sBuffer

Else

fChangeFolder = ""

End If

End Function

Private Function fCallback(ByVal hWnd As Long, ByVal IMessage As Long, ByVal x As Long, ByVal IData As Long) _
As Long

```
Dim lldList As Long
Dim IRet As Long
Dim sBuffer As String
```

On Error Resume Next

Select Case IMessage

Case CINIT

Call SendMessage(hWnd, SETCONTNET, 1, strAktuellesVerzeichnis)

Case SELECTEDCHANGED

sBuffer = Space(C_MAXPATH)

IRet = SHGetPathFromIDList(x, sBuffer)

If IRet = 1 Then

Call SendMessage(hWnd, SETSTATUSTEXT, 0, sBuffer)

End If

End Select

fCallback = 0

End Function

Private Function AdressOFFunction(IngAdd As Long) As Long

AdressOFFunction = IngAdd

End Function

Tipp : 49.

'Beispiel : Verwendung ProgressBar.

'HINWEIS:

'Verwendet Microsoft Windows Common Controls 5.0 (SP 2)

Private Sub Command1_Click()

End

End Sub

Private Sub Form_Load()

Me.Show

Timer1.Interval = 1000

Timer1.Enabled = True

End Sub

Private Sub Timer1_Timer()

vEndTime = 4 'Laufzeit der ProgressBar setzen

ProgressBar1.Max = ((vEndTime + 1) * Timer1.Interval)

Start = Timer 'Startzeit setzen.

Do While Timer < Start + vEndTime

ProgressBar1.Value = ProgressBar1.Value + 2

DoEvents 'System frei lassen

Loop

```
Ende = Timer 'Endzeit setzen.  
vRunning = Ende - Start 'Gesamtzeit berechnen.  
MsgBox "Angehalten nach : " & vRunning & " Sekunden."  
Timer1.Enabled = False
```

End Sub

Tipp : 50.

'Beispiel : MouseMove

```
Private Declare Function ReleaseCapture Lib "user32" () As Long
```

```
Private Declare Function SendMessage Lib "user32" Alias _  
    "SendMessageA" (ByVal hwnd As Long, _  
    ByVal wParam As Long, _  
    ByVal lParam As Integer, _  
    ByVal IPParam As Long) _  
    As Long
```

```
Private Sub Command1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)  
    ReleaseCapture  
    IRet& = SendMessage(Me.hwnd, &H112, &HF012, 0)  
End Sub
```

```
Private Sub Command2_Click()  
    End  
End Sub
```