

## Practical No. 06

Aim: Use any automated test tool, (e.g. autoit v3 tool) and demonstrate the use of 1) If....else, 2) For....loop, 3)Do....Until , 4) Switch....Case

### Theory:

AutoIt v3 is a freeware BASIC-like scripting language designed for automating the Windows GUI and general scripting. It uses a combination of simulated keystrokes, mouse movement and window/control manipulation in order to automate tasks in a way not possible or reliable with other languages.

AutoIt was initially designed for PC "roll out" situations to reliably automate and configure thousands of PCs. Over time it has become a powerful language that supports complex expressions, user functions, loops and everything else that veteran scripters would expect. Features:

- Easy to learn Basic like syntax
- Simulate keystrokes and mouse movements
- Manipulate windows and processes.
- Interact with all standard windows control
- Scripts can be compiled into standable standalone executables
- Create Graphical User Interfaces (GUIs)
- COM support
- Regular expressions
- Directly call external DLL and windows API Functions.
- Scriptable RunAs functions
- Detailed helpfile and large community based support forums.
- Compatible with Windows XP SP3/2003 SP2/vista/2008 R2

2008'

2008 / Windows 7 / Windows 8 / 2012 R2 / Windows 10 /  
Windows 11

- Unicode and x64 support
- Digitally signed for peace of mind
- Works with Windows user account control (UAC).

Use:

i) IF.... Else

If <expression> Then statement

```
# include<MsgBoxConstants.au3>
```

```
local $iNumber = InputBox("Question", "Enter a number")
```

If \$iNumber > 0 Then

MsgBox( \$MB\_SYSTEMMODAL, "Example if\_else", \$iNumber & " is  
positive!")

Else If \$iNumber < 0 Then

MsgBox( \$MB\_SYSTEMMODAL, "if\_else", \$iNumber & " is negative!");

Else If \$iNumber == 0 Then

MsgBox( \$MB\_SYSTEMMODAL, "if\_else", \$iNumber & " is zero!");

Else

MsgBox( \$MB\_SYSTEMMODAL, "if\_else", \$iNumber & " is not a valid number!")

EndIf

## 2) For... Loop

For <variable> = <start> To <end/stop> [Step <stepval>]  
Statements...

Next

A For loop will execute zero times if:

Start > Stop and step  $\geq 0$ , or

Start < Stop and step is negative

#include <MsgBoxConstants.au3>

For \$i = 5 To 1 Step -1

MsgBox(\$MB\_SYSTEMMODAL, "", "Countdown!" & @CRLF & \$i)

Next

MsgBox(\$MB\_SYSTEMMODAL, "", "Blast off")

## 3) Do... Until

Do

Statements

...

Until <expression>

Do...until statements may be nested.

The expression is tested after the loop is executed, so the loop will be executed one or more times.

```
#include <MsgBoxConstants.au3>
```

Local \$i = 0

Do

```
MsgBox($MB_SYSTEMMODAL, "", "The value of $i is : "&$i)
```

```
$i += $i + 1
```

Until \$i == 10

```
MsgBox($MB_SYSTEMMODAL, "", "Out of Do... Until")$
```

#### 4) Switch... case

Switch <expression>

Case <value> [To <value>] [, <value> [To <value>] ... ]

Statement 1...

...

[Case <value> [To <value>] [, <value> [To <value>] ... ]

Statement 2...

...

[Case Else

Statement N...

...

EndSwitch

If no cases match the Switch value, then the Case Else section is executed, if present. If no cases match and Case Else is not defined, then none of the code inside the Switch structure, other than the initial expression, will be executed.

Switch statements may be nested. Switch statements are case insensitive.

• AutoIT - Scripting Language

• GUI Application

• It is a free and open source, cross-platform application development tool.

• GUI Application

• Controls, Events, "If...Else", "For...Loop", "Do...Until", "Switch...Case"

• Syntax -

• Case sensitive

[...ResourceFile1.exe,] [ResourceFile2.exe,] [ResourceFile3.exe]

• Translated

[...[ResourceFile1.exe,] [ResourceFile2.exe,] [ResourceFile3.exe]]

• Syntax -

• GUI Application

• Windows API

• Installation

Conclusion : AutoIt is a free and open source application development tool.

Thus, we have installed and configured tool AutoIT v3 and demonstrated use of 1) IF...Else , 2) For...Loop , 3) Do...Until , 4) Switch...Case