

VBA TEXT FILES

VBA Text Files

We can also read Excel File and write the contents of the cell into a Text File. This way, VBA allows users to work with text files. We can work with test files using two methods

- **File System Object**
- **using Write Command**

Using File System Object FSO

As the name suggests, FSO Objects help the developers to work with drives, folders and files. In this section, we will discuss how to use FSO.

Object Type	Description
Drive	Drive is an Object. Contains methods and properties that allow you to gather information about a drive attached to the system
Drives	Drives is a Collection. It Provides a list of the drives attached to the system, either physically or logically.
File	File is an Object. It Contains methods and properties that allow developers to create, delete or move a file.
Files	Files is a Collection. It Provides a list of all files contained within a folder.
Folder	Folder is an Object. It Provides methods and properties that allow developers to create, delete or move folders.
Folders	Folders is a Collection. It Provides a list of all the folders within a Folder.
TextStream	TextStream is an Object. It enables developers to read and write text files.

Drive

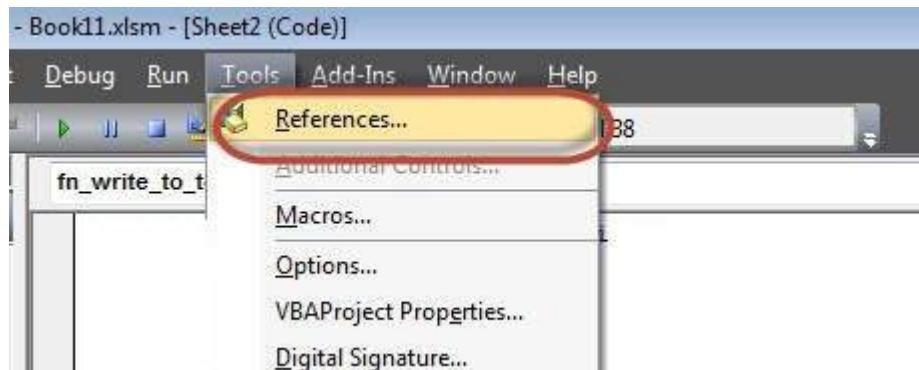
Drive is an object, which provides access to the properties of a particular disk drive or network share. The Following properties are supported by **Drive** object:

- AvailableSpace
- DriveLetter
- DriveType
- FileSystem
- FreeSpace
- IsReady
- Path
- RootFolder
- SerialNumber
- ShareName

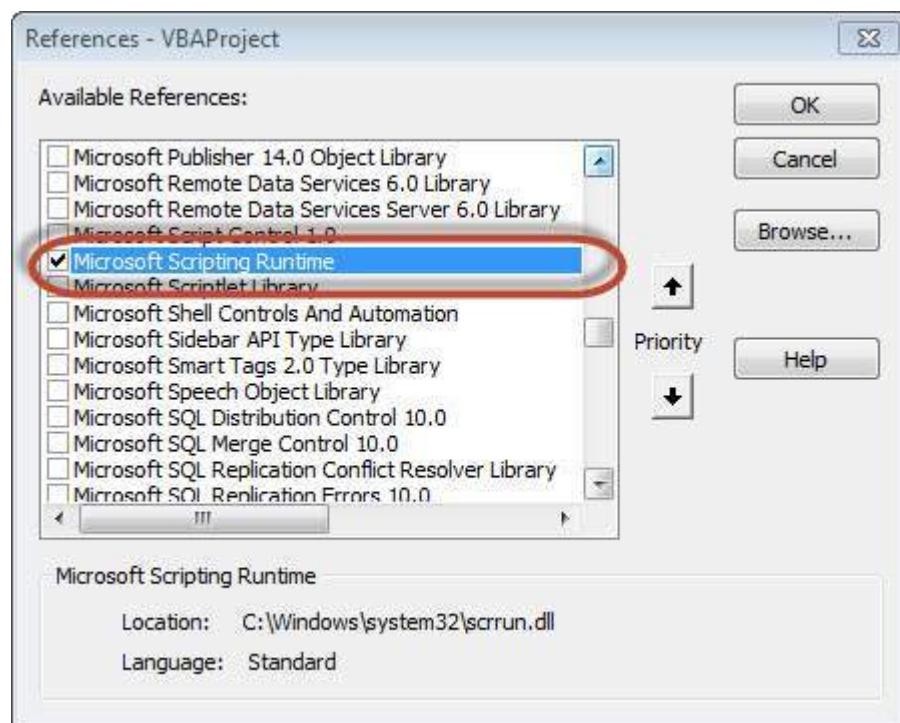
- TotalSize
- VolumeName

Example

Step 1 : Before proceeding to scripting using FSO, we should enable Microsoft Scripting Runtime. To do the same, Navigate to "Tools" >> "References" as shown below :



Step 2 : Add "Microsoft Scripting RunTime" and Click OK.



Step 3 : Add Data that you would like to write it to a Text File and add a Command Button.

	A	B	C	D	E	F	G	H	I
1	State	Prevalence	95% Confidence Interval						
2	Alabama		33 (31.5, 34.4)						
3	Alaska		25.7 (23.9, 27.5)						
4	Arizona		26 (24.3, 27.8)						
5	Arkansas		34.5 (32.7, 36.4)						
6	California		25 (23.9, 26.0)						
7	Colorado		20.5 (19.5, 21.4)						
8	Connecticut		25.6 (24.3, 26.9)						
9	Delaware		26.9 (25.2, 28.6)						
10	District of Columbia		21.9 (19.8, 24.0)						
11									
12									

Step 4 : Now it is time to Script.

```

Private Sub fn_write_to_text_Click()
Dim FilePath As String
Dim CellData As String
Dim LastCol As Long
Dim LastRow As Long

Dim fso As FileSystemObject
Set fso = New FileSystemObject
Dim stream As TextStream

LastCol = ActiveSheet.UsedRange.Columns.Count
LastRow = ActiveSheet.UsedRange.Rows.Count

' Create a TextStream.
Set stream = fso.OpenTextFile("D:\Try\Support.log", ForWriting, True)

CellData = ""

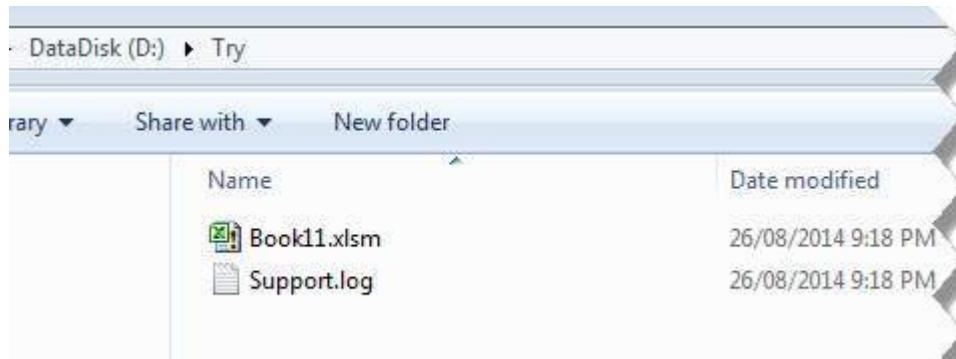
For i = 1 To LastRow
    For j = 1 To LastCol
        CellData = Trim(ActiveCell(i, j).Value)
        stream.WriteLine "The Value at location (" & i & "," & j & ")" & CellData
    Next j
Next i

stream.Close
MsgBox ("Job Done")
End Sub

```

Output

When executing the script, ensure that you place the cursor in the first cell of the worksheet. The Support.log file is created as shown below under "D:\Try".



The Contents of the file is also shown below :

1	The Value at location (1,1)State
2	The Value at location (1,2)Prevalence
3	The Value at location (1,3)95% Confidence Interval
4	The Value at location (2,1)Alabama
5	The Value at location (2,2)33
6	The Value at location (2,3)(31.5, 34.4)
7	The Value at location (3,1)Alaska
8	The Value at location (3,2)25.7
9	The Value at location (3,3)(23.9, 27.5)
10	The Value at location (4,1)Arizona
11	The Value at location (4,2)26
12	The Value at location (4,3)(24.3, 27.8)
13	The Value at location (5,1)Arkansas

```
14 The Value at location (5,2)34.5
15 The Value at location (5,3)(32.7, 36.4)
16 The Value at location (6,1)California
17 The Value at location (6,2)25
18 The Value at location (6,3)(23.9, 26.0)
19 The Value at location (7,1)Colorado
20 The Value at location (7,2)20.5
21 The Value at location (7,3)(19.5, 21.4)
22 The Value at location (8,1)Connecticut
23 The Value at location (8,2)25.6
24 The Value at location (8,3)(24.3, 26.9)
25 The Value at location (9,1)Delaware
26 The Value at location (9,2)26.9
27 The Value at location (9,3)(25.2, 28.6)
28 The Value at location (10,1)District of Columbia
29 The Value at location (10,2)21.9
30 The Value at location (10,3)(19.8, 24.0)
31
```

Using Write Command

unlike FSO, we need NOT add any references, however we will NOT be able to work Drives, Files and Folders. We will be able to just add the stream to text file.

Example

```
Private Sub fn_write_to_text_Click()
    Dim FilePath As String
    Dim CellData As String
    Dim LastCol As Long
    Dim LastRow As Long

    LastCol = ActiveSheet.UsedRange.Columns.Count
    LastRow = ActiveSheet.UsedRange.Rows.Count

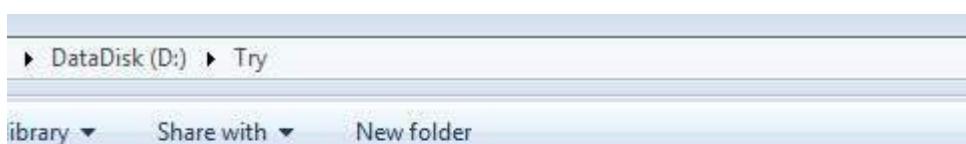
    FilePath = "D:\Try\write.txt"
    Open FilePath For Output As #2

    CellData = ""
    For i = 1 To LastRow
        For j = 1 To LastCol
            CellData = "The Value at location (" & i & "," & j & ")" & Trim(ActiveCell(i,
j).Value)
            Write #2, CellData
        Next j
    Next i

    Close #2
    MsgBox ("Job Done")
End Sub
```

Output

Upon executing the script, the "write.txt" file is created in the location "D:\Try" as shown below.



	Name	Date modified
	Book11.xlsxm	26/08/2014 10:22 ...
	write.txt	26/08/2014 10:22 ...

The Contents of the file is also shown below :

```

1 The Value at location (1,1)State
2 The Value at location (1,2)Prevalence
3 The Value at location (1,3)95% Confidence Interval
4 The Value at location (2,1)Alabama
5 The Value at location (2,2)33
6 The Value at location (2,3)(31.5, 34.4)
7 The Value at location (3,1)Alaska
8 The Value at location (3,2)25.7
9 The Value at location (3,3)(23.9, 27.5)
10 The Value at location (4,1)Arizona
11 The Value at location (4,2)26
12 The Value at location (4,3)(24.3, 27.8)
13 The Value at location (5,1)Arkansas
14 The Value at location (5,2)34.5
15 The Value at location (5,3)(32.7, 36.4)
16 The Value at location (6,1)California
17 The Value at location (6,2)25
18 The Value at location (6,3)(23.9, 26.0)
19 The Value at location (7,1)Colorado
20 The Value at location (7,2)20.5
21 The Value at location (7,3)(19.5, 21.4)
22 The Value at location (8,1)Connecticut
23 The Value at location (8,2)25.6
24 The Value at location (8,3)(24.3, 26.9)
25 The Value at location (9,1)Delaware
26 The Value at location (9,2)26.9
27 The Value at location (9,3)(25.2, 28.6)
28 The Value at location (10,1)District of Columbia
29 The Value at location (10,2)21.9
30 The Value at location (10,3)(19.8, 24.0)

```

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