# Week 3 Quiz

#### **TOTAL POINTS 5**

Twelve workbooks (January through December) exist in a folder on your computer. Each workbook is named with the format "MM-2017.xlsx", where "MM" is the month (01 through 12). Each workbook has between 3 and 6 worksheets (varies for each workbook). Each of the workbooks has the first worksheet named "Basic Data" and the other sheets are named "Trial X", where X can range from 1 to 5.

1 point

You wish to create a subroutine called "ExtractData" that averages the contents of cell A1 from the worksheets and workbooks in the folder and places the average into cell A1 of the main file (ThisWorkbook). However, you only wish to extract the data from even months and odd values of X.

You have created the **ExtractData** subroutine shown below. What code should be placed in the two spots "**What code goes here?**" to make this subroutine work properly? Select one of the options for **a**) below and one of the options for **b**).

### Option Explicit

```
Sub ExtractData()
Dim Folder As String, FileName As String
Dim tWB As Workbook, aWB As Workbook
Dim nw As Integer, i As Integer
Dim s As Integer, c As Integer
Set tWB = ThisWorkbook
Folder = "C:\Users\Bert&Ernie\Documents\Data Files"
FileName = Dir(Folder & "\*.xlsx")
Do
    Ιf
        a) What code goes here?
        Workbooks.Open Folder & "\" & FileName
        Set aWB = ActiveWorkbook
        nw = aWB.Worksheets.Count
        For i = 2 To nw
            If b) What code goes here?
                s = s + Worksheets(i).Range("A1")
                c = c + 1
            End If
        aWB.Close SaveChanges:=False
    End If
    FileName = Dir
Loop Until FileName = ""
MsqBox s / c
End Sub
```

- b) Left(FileName, 2) Mod 2 = 0 Then
- b) Right(Worksheets(i).Name, 1) Mod 2 = 1 Then
- a) Left(FileName, 2) Mod 2 = 1 Then
- a) Right(Worksheets(i).Name, 1) Mod 2 = 1 Then
- b) Right(Worksheets(i).Name, 1) Mod 2 = 0 Then
- 2. Which of the following statements regarding the material in this module are TRUE? Select all that apply.

1 point

In the workbook shown, Worksheets(1).Name is equivalent to Sheets("Main").Name

	А	В	С
1	1	2	3
2	4	5	6
3	7	8	9
4			
5			
6			
4	Ma	Sheet2	Sheet3

- Sheets.Count and Worksheets.Count will always provide the same result.
- Workbooks.Count will display the number of currently open workbooks.
- Multiple workbooks are open and each has multiple worksheets. The VBA statement MsgBox Sheets("Sheet1").Range("A1") will display the contents of cell A1 of the workbook that the code is written in (ThisWorkbook), regardless of the current active workbook.

A workbook has 3 worksheets and each worksheet has an integer in cell **B2**. If you wished to sum those three numbers, the following code would successfully do this:

```
Sub SumNumbers()
Dim w As Worksheet, s As Integer
For Each w In Worksheets
    s = s + Range("B2")
Next
MsgBox s
End Sub
```

There are two workbooks in the Data\_Files folder (File1.xlsx and File2.xlsx). The following code is written within the file Main.xlsm. After the code has executed, which file will be the active workbook?

1 point

### Option Explicit

```
Sub OpenFiles()
Dim FileName1 As String, FileName2 As String
Dim a As Workbook, b As Workbook, c As Workbook
FileName1 = "C:\Users\Bert&Ernie\Documents\Data_Files\File2.xlsx"
FileName2 = "C:\Users\Bert&Ernie\Documents\Data_Files\File1.xlsx"
Workbooks.Open FileName1
Set c = ActiveWorkbook
Workbooks.Open FileName2
Workbooks(3).Activate
Set a = ActiveWorkbook
MsgBox c.Worksheets(1).Name
c.Close SaveChanges:=False
Set b = ThisWorkbook
End Sub
```

- ( ) Main.xlsm
- File1.xlsx
- File2.xlsx
- 4. Which of the following subroutines will count the total number of worksheets in all open workbooks? Select all that apply.

1 point

# Option Explicit

```
Sub CountTotalOpenWorksheets()
Dim wb As Workbook
Dim c As Integer
For Each wb In Workbooks
        c = c + wb.Worksheets.Count
Next
MsgBox c
End Sub
```

## Will this work?

# Option Explicit

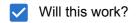
## Option Explicit

```
Sub CountTotalOpenWorksheets()
Dim nb As Integer, ws As Worksheet
Dim c As Integer, i As Integer
nb = Workbooks.Count
For i = 1 To nb
        c = c + Workbooks(i).Worksheets.Count
Next i
MsgBox c
End Sub
```

## Will this work?

```
Option Explicit Option Base 1
```

```
Sub ConsolidateData()
Dim A() As String, i As Integer, n As Integer
n = Worksheets.Count
ReDim A(n - 1) As String
Worksheets(1).Range("A1").Select
For i = 2 To n
        A(i - 1) = Worksheets(i).Range("A1")
Next i
For i = 1 To n - 1
        ActiveCell.Offset (i - 1, 0) = A(i)
Next i
End Sub
```



### Option Explicit

```
Sub CountTotalOpenWorksheets()
Dim n As Integer, wb As Workbook
Dim c As Integer, ns As Integer, i As Integer
ns = Worksheets.Count
For i = 1 To ns
        c = c + Worksheets(i).Workbooks.Count
Next i
MsgBox c
End Sub
```

5. Which of the following statements regarding the material in this module are **TRUE**? Select all that apply.

1 point

- The Application.GetOpenFilename method can only be used to open one file at a time.
- Sheets("Sheet1").Name = "Main" could be used to rename Sheet1 with the name "Main"
- If I wished to close the file "User\_Data.xlsx", I could use Close "User\_Data.xlsx" in my VBA code.
- Sheets("Sheet2").Visible = False will hide Sheet2.
- If I wished to close the most recent workbook opened, I could use the following line of VBA code:

Workbooks(Workbooks.Count).Close SaveChanges:=False

I, **JAY PATEL**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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