

# Week 3 Quiz

TOTAL POINTS 5

1. 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  
    If 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  
        Next i  
        aWB.Close SaveChanges:=False  
    End If  
    FileName = Dir  
Loop Until FileName = ""  
MsgBox s / c  
End Sub
```

☐ a) Left(FileName, 2) Mod 2 = 0 Then

- ☒ 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**

	A	B	C
1	1	2	3
2	4	5	6
3	7	8	9
4			
5			
6			

  

◀	▶	Main	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
```

3. 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

☒ Will this work?

## 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

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

☒ Will this work?

### 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
```

- ☒ Will this work?

### 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**?

1 point

Select all that apply.

- ☒ 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.

[Learn more about Coursera's Honor Code](#)