



How to install Excel XPS macro on macOS Excel 2016

 <https://youtu.be/geoulV1kGx8>

hideki

Ver. 8.42

Ed 1st. 9 Jun. 2017 for Ver. 8.28

Rev. 24 Jun. 2019

Installation of macro on macOS

- The process is the same as that in Windows version except making the database folder.
 - Personal macro workbook
 - Solver add-in and reference in VBE
 - Shortcut key for cmd + opt + “e”
 - Database folder in working space “MyExcelFolder”

The code does not work perfectly yet on macOS.



Sign in



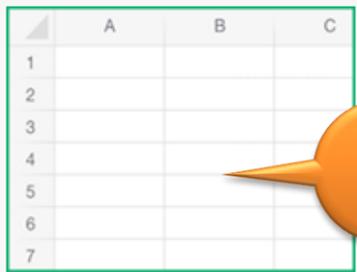
New



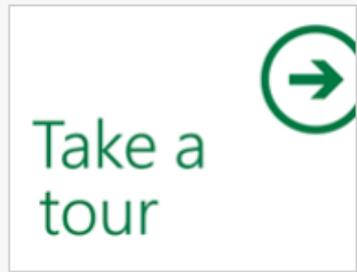
Recent



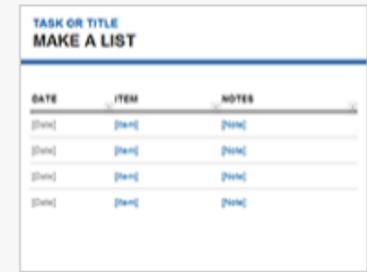
Open



Blank Workbook



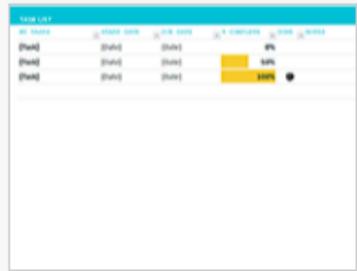
Welcome to Excel



Make a List



Total a List



Track My Tasks



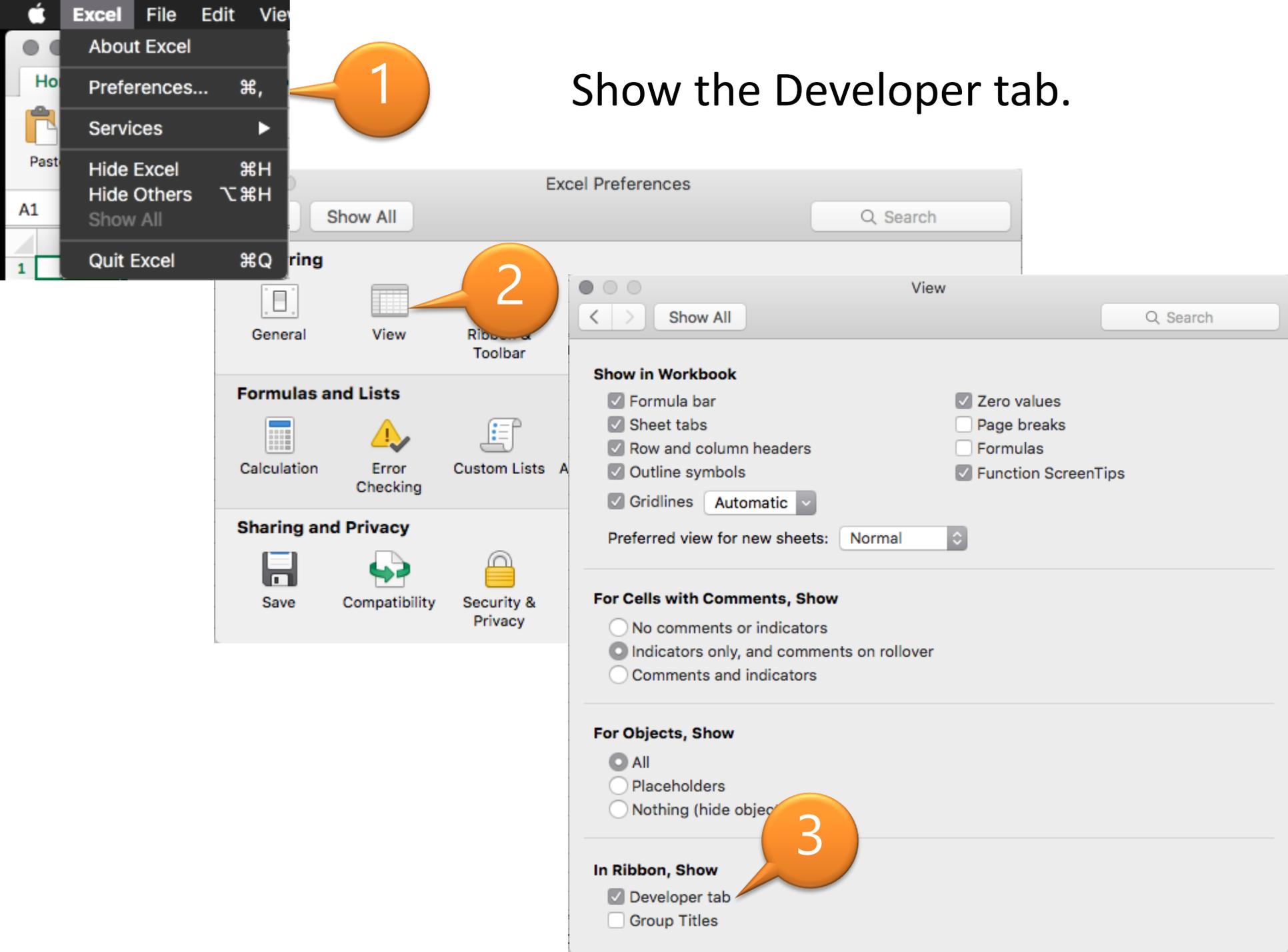
Manage My Money



Cancel

Create

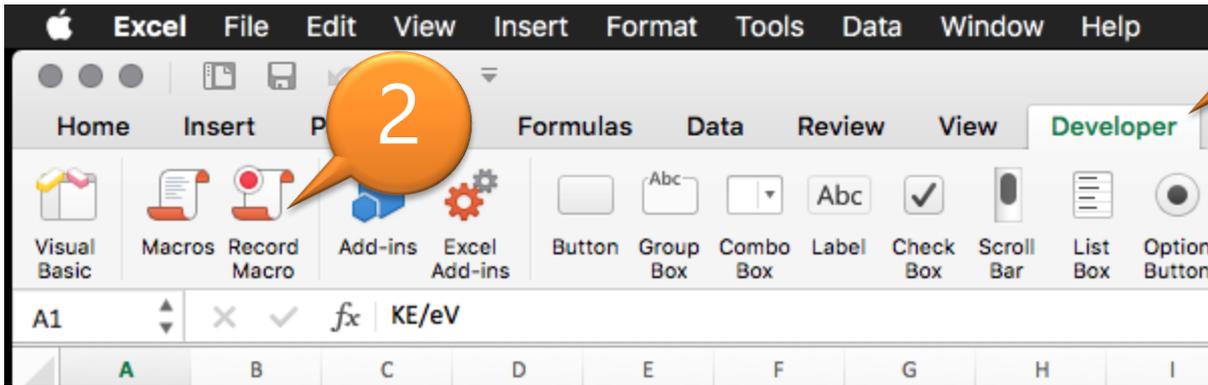
Show the Developer tab.



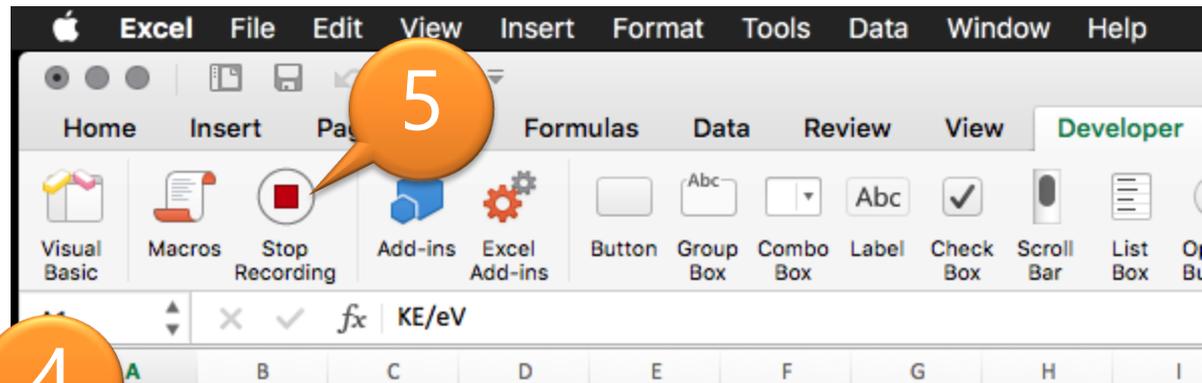
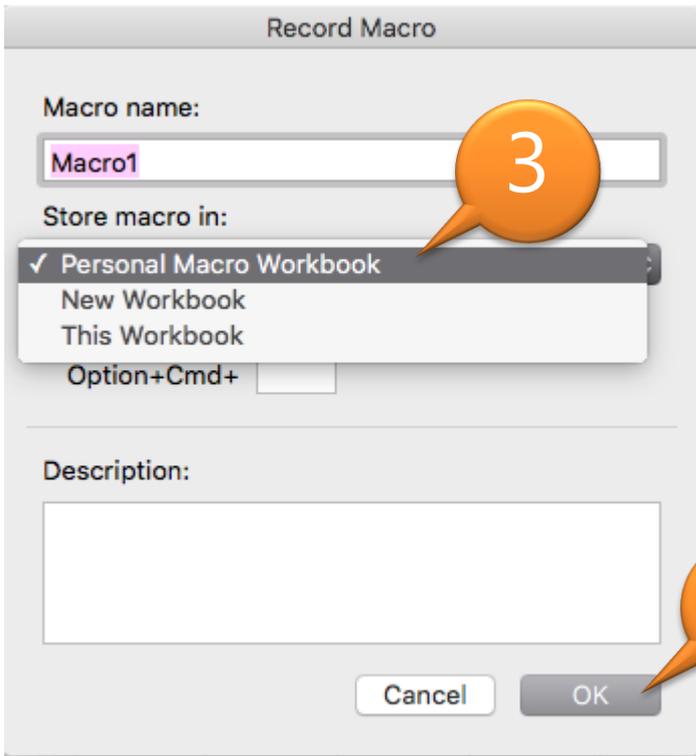
1

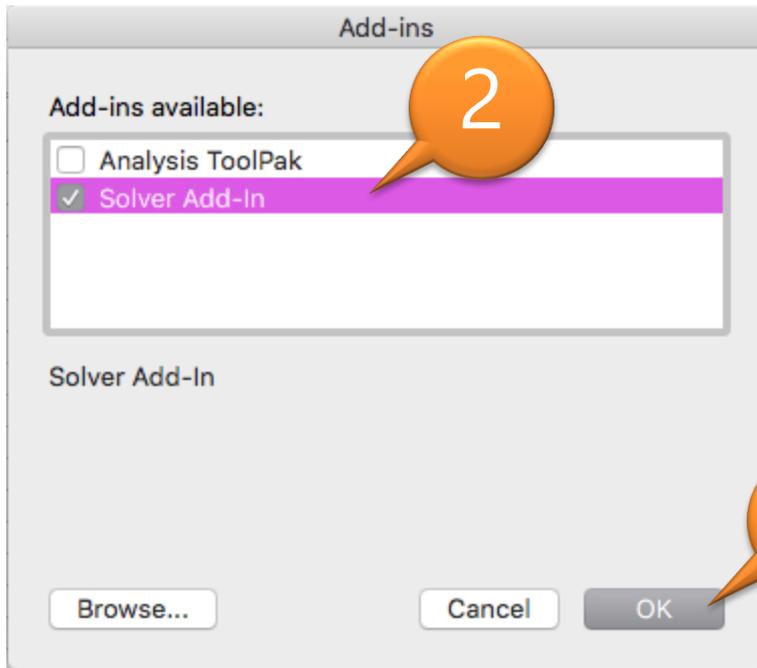
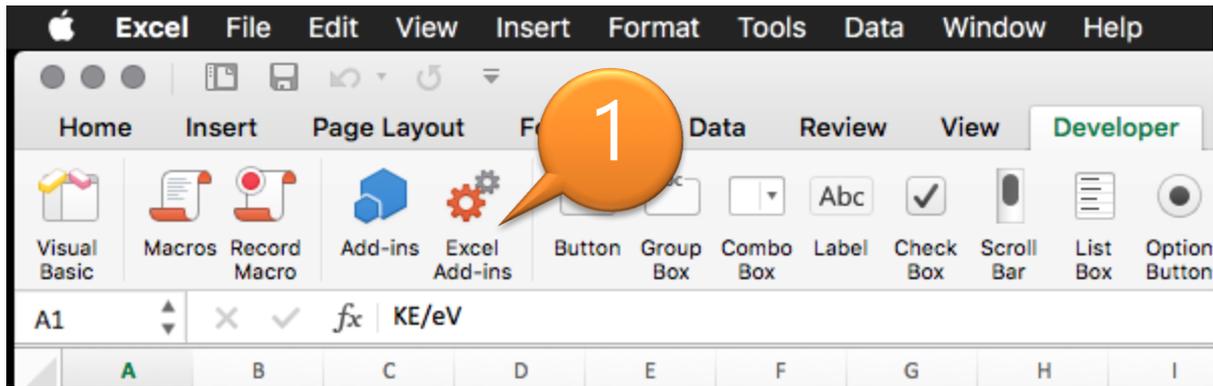
2

3

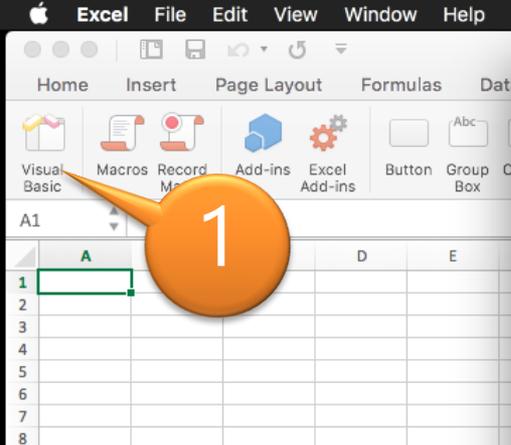


Create the personal macro workbook

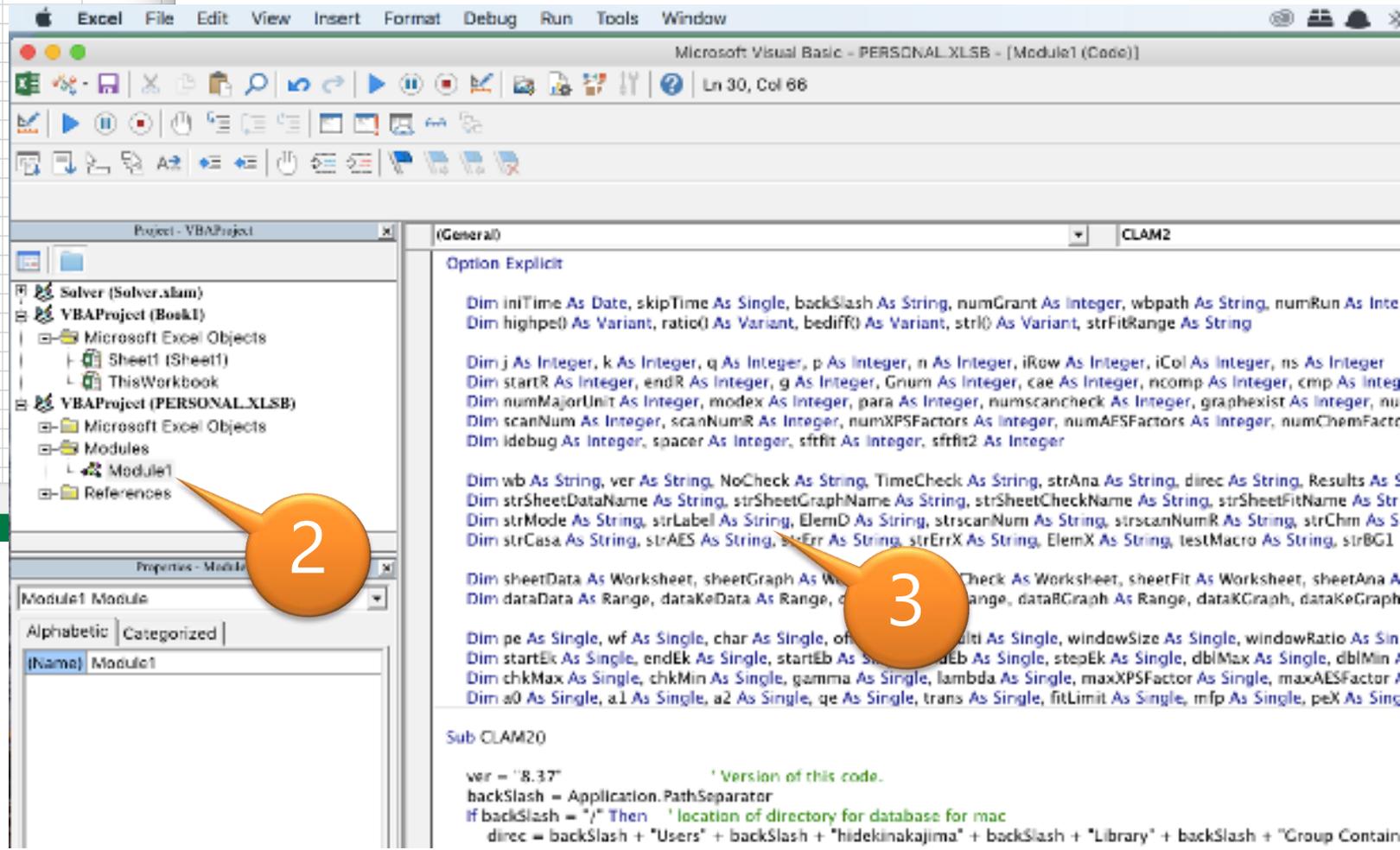




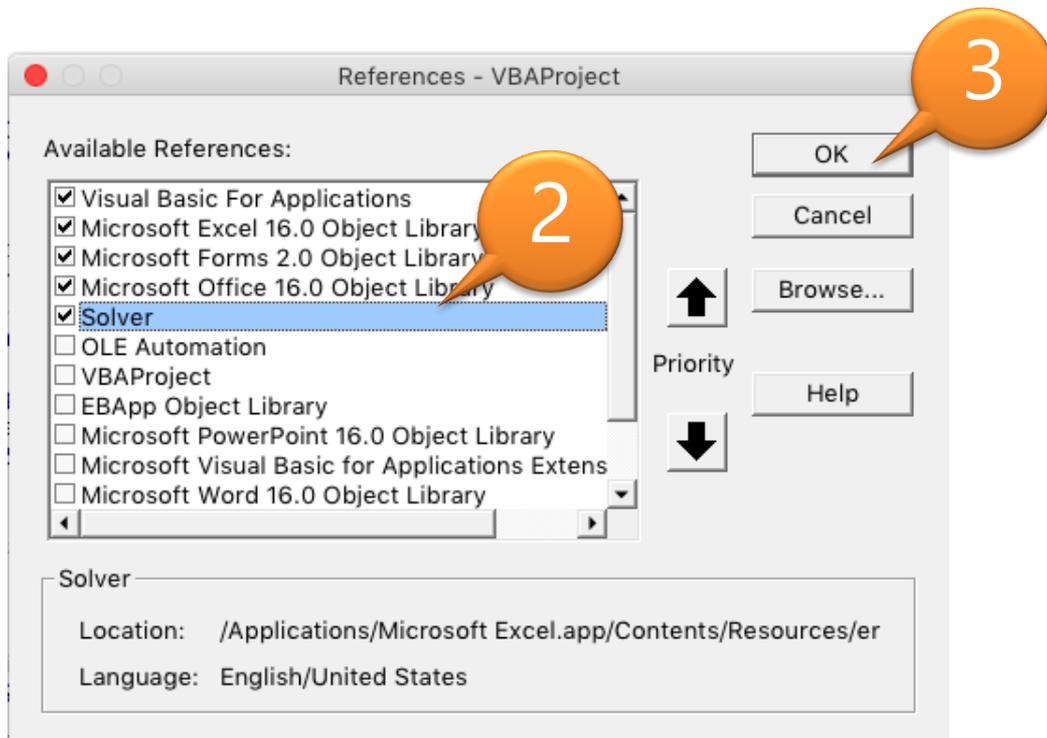
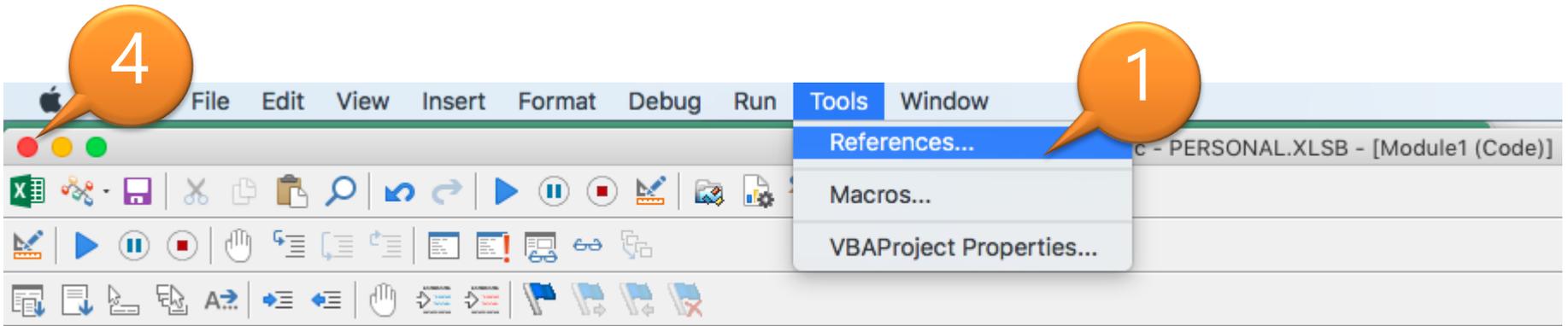
Activate the Solver Add-In

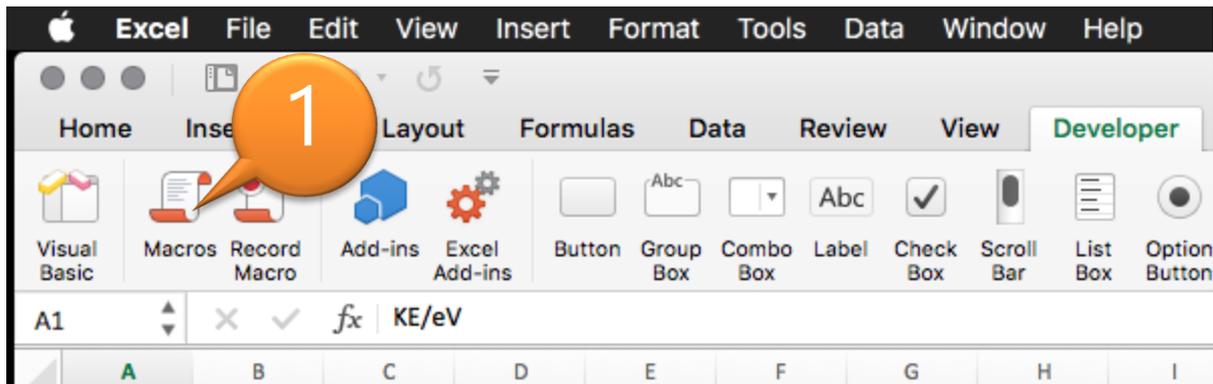


Install the VBA code in the following way;
Switch Visual Basic Editor mode, double-click to open VBAProject (PERSONAL.XLSB)– Module - Module1, and paste the code from LoadCLAMvXXX_std.vb opened with test editor.

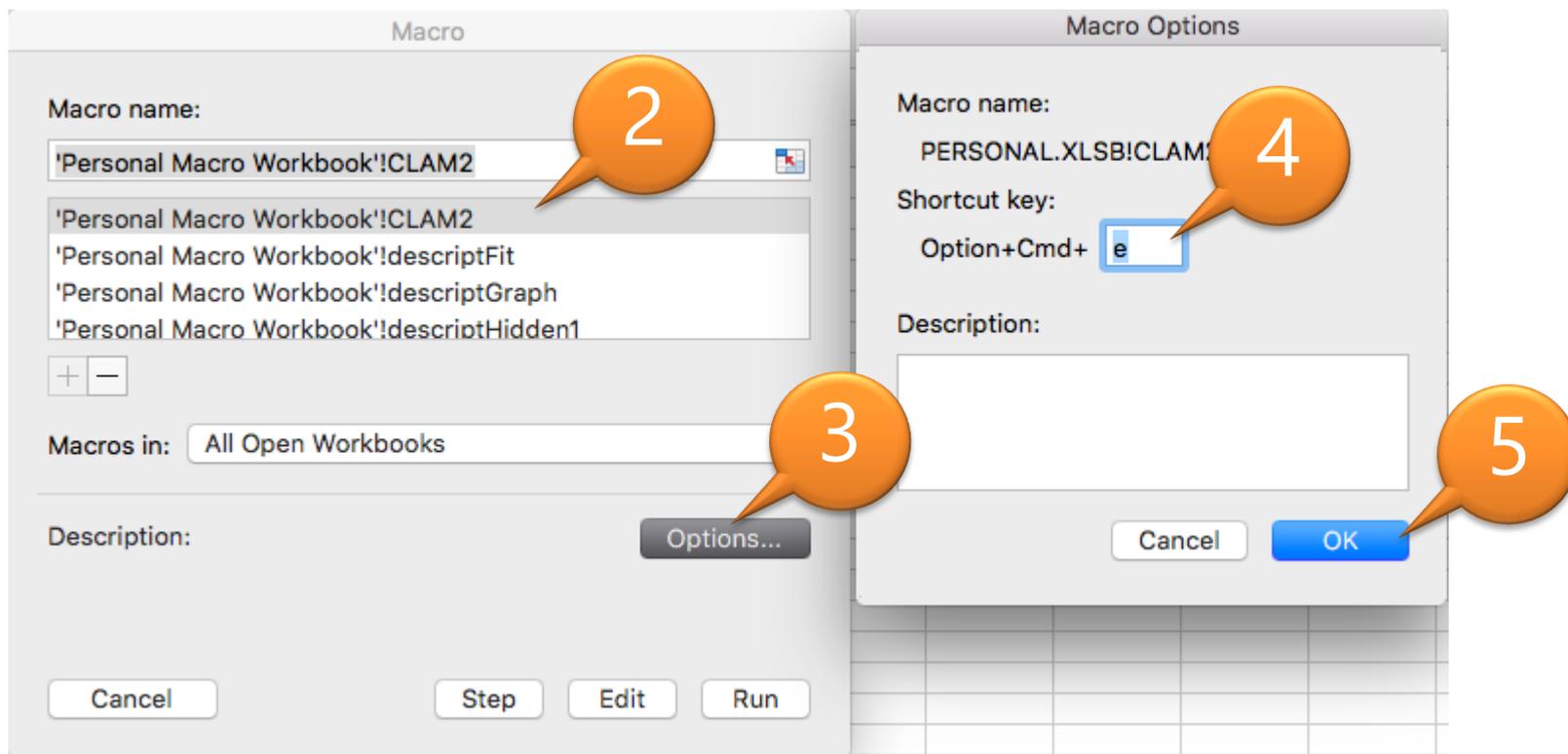


Activate Solver library from menu accessible in the Visual Basic Editor mode.



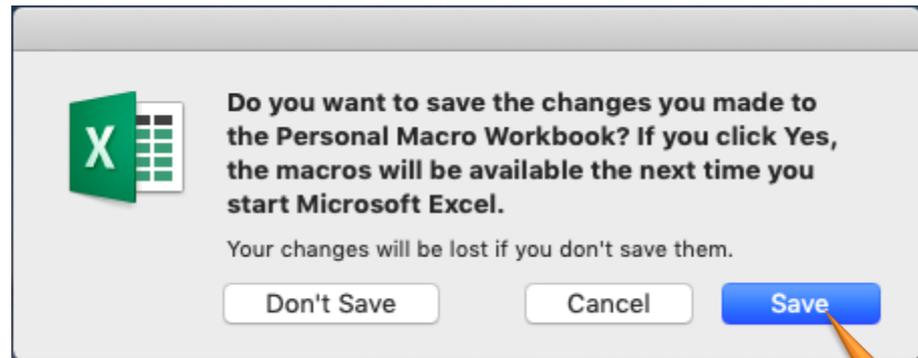


Assign the shortcut key “e”





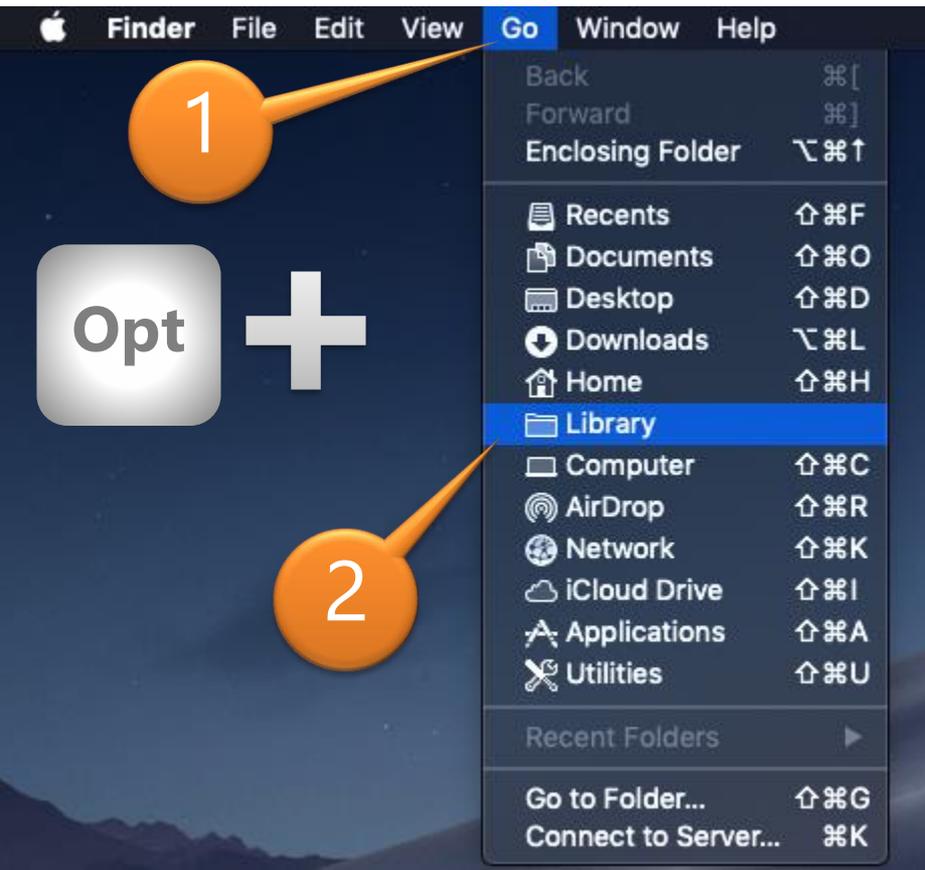
1



2

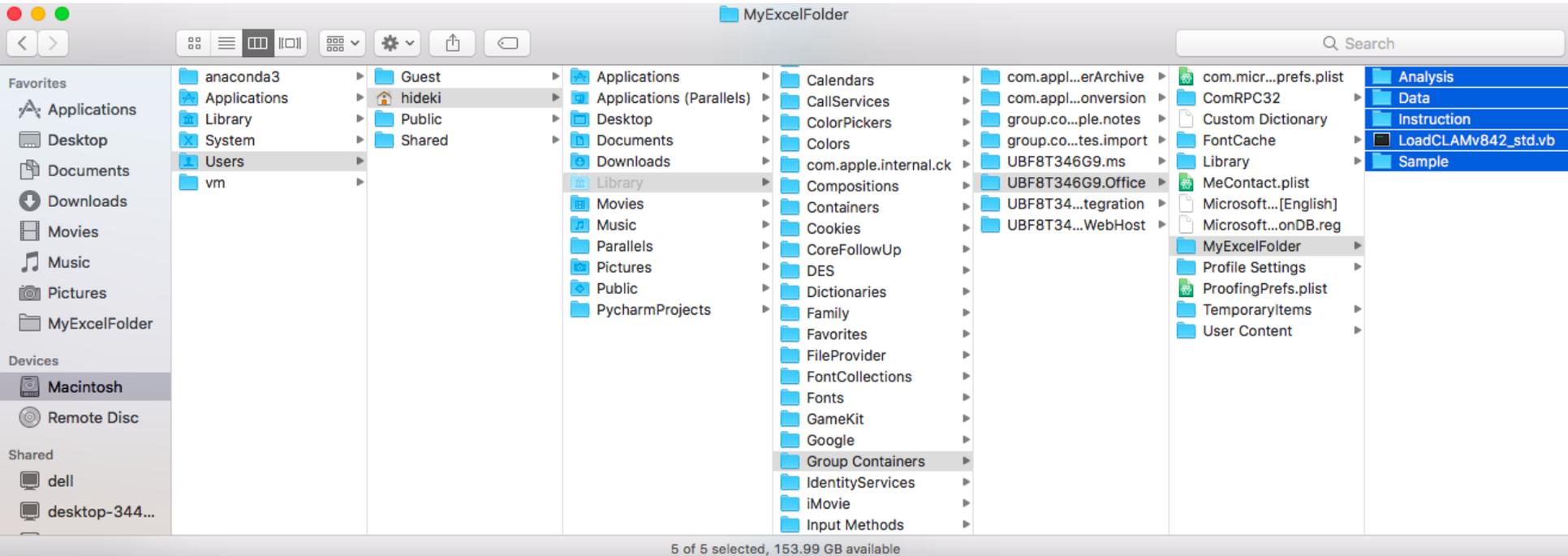
So far, the procedure is the same as that in Windows.
Next slide shows how to create the folder for database on mac.

1. Open a Finder Window
2. Hold the **Alt (Option)** key when you press on **Go** in the Finder menu bar
3. Click on **Library**
4. Open the **Group Containers** folder
5. Open the **UBF8T346G9.Office** folder
6. Create a Folder inside this folder named **MyExcelFolder** for example
7. Select this folder

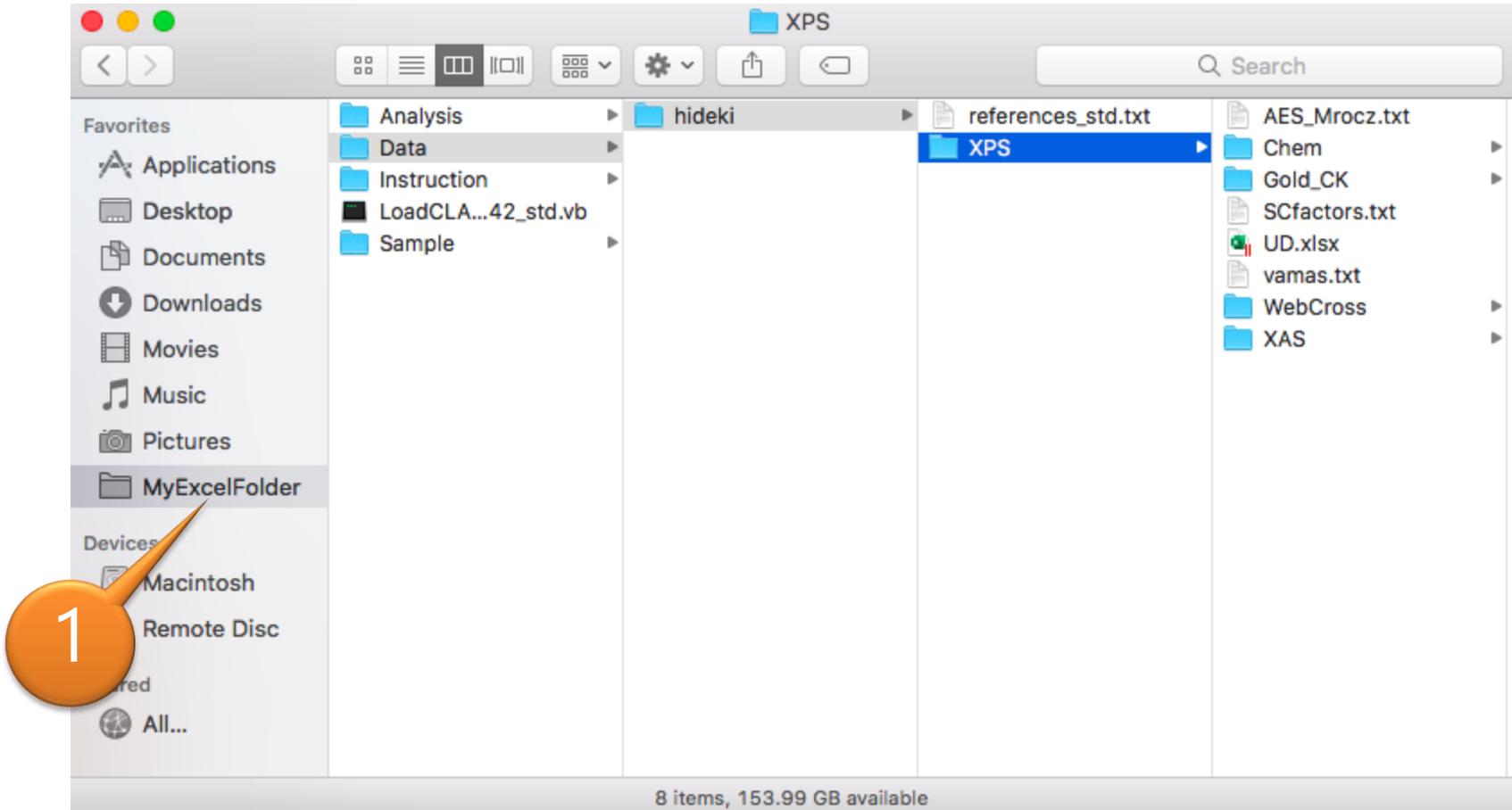


Library folder can be accessed from Go with Option key, otherwise no Library menu appears as shown in Fig.

All unzip files and folders should be placed in
Library/Group Containers/UBF8T346G9.Office/MyExcelFolder/



Drag & drop *MyExcelFolder* into Favorites for next access.



Open the sample file with Excel and use shortcut key.

The main spreadsheet displays XPS data with the following columns:

KE/eV	Intensity
110904.1625_1	609
496	609
496.9	608
497	584
497.1	566
497.2	555
497.3	543
497.4	576
497.5	606
497.6	614
497.7	575
497.8	593
497.9	641
498	602
498.1	598
498.2	611
498.3	635
498.4	586
498.5	632
498.6	628
498.7	567
498.8	606
498.9	599
499	604
499.1	624

The inset window shows a fitted curve with the following parameters table:

Parameter	Value
PE	600 eV
WF	4 eV
Char	0 eV
Start KE	496 eV
End KE	516 eV
Step KE	0.1 eV
# scan	1 times
Offset/multi	0
Ke	Be
ln	1

The 'Manual input mode' dialog box contains the following text:

Manual input mode

600

Cancel OK

The 'Input atomic elements' dialog box contains the following text:

Input atomic elements

Au

Cancel OK

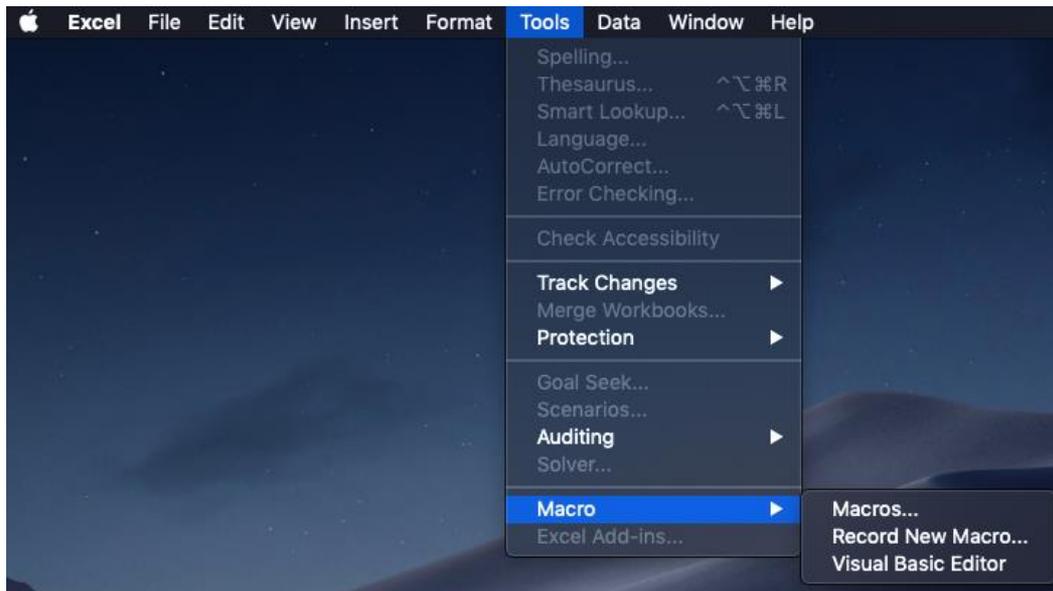
Select the worksheet "Fit_filename" and use shortcut key.

The image displays a Microsoft Excel spreadsheet titled "Au4f_sample.xlsx" with a graph and a data table. A diagram overlays the text "Cmd + Opt + e" with a blue vertical bar and plus signs, indicating a keyboard shortcut. The graph shows "Intensity normalized by I_p (arb. units)" vs "Binding energy (eV)". The data table includes parameters like "Name", "Amplitude", "Shape", and "Area".

Name	Au4f7/2	Au4f5/2
BE	83.795939	87.395939
KE	509.200406	505.600406
FWHM1	2.17909878	2.8510928
FWHM2		
Amplitude	2725.34149	2044.00612
Shape	Gauss	Gauss
Option a		
Option b		
Option c		
Form	G	G
beta	1	1
Amp+BG	2843.34149	2162.00612
RSF	9.57999992	7.53999996
P. Area	6333.00464	6214.49017
S. Area	661.065208	824.202945
N. Area	767.982995	961.52355
Asym		
Amp. rat.	(4;	3)
BE diff.	[3.6]
T.I. Area	6334.61053	6216.06601
S.I. Area	661.232837	824.411942
N.I. Area	768.177736	961.767369
Corr. RSF	8.24628238	6.46317001

Batch processing

- Excel Mac has no blank window available, then batch processing mode cannot be performed.
- However, Menu bar - Tools - Macro - Macros ... - debugAll to run batching mode without opening any text files or workbooks in **MyExcelFolder**.



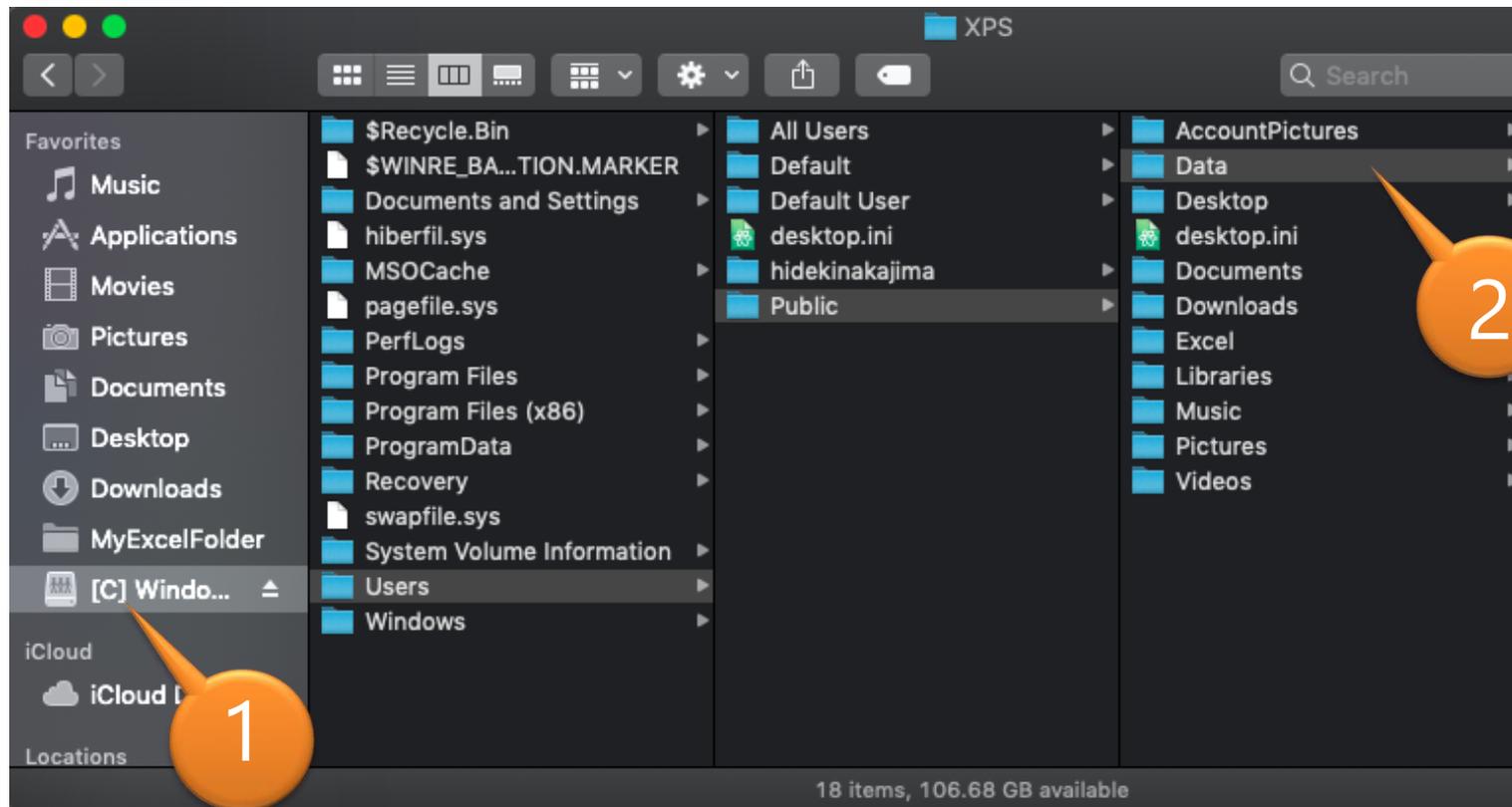
Virtual machine environment on macOS

EXCEL ON PARALLEL DESKTOP

Installation is the same as that used in the Windows Excel.

except

Database files under the folder "C:\Users\Public\Data\hideki\XPS\
It is important to find the Public folder under the [C] drive.



Then, the database location should be changed to `direc = "C:\Users\Public\Data\hideki\XPS\`

```
Sub CLAM2 ()  
  
ver = "8.42a" ' Version of this code.  
If Application.OperatingSystem Like "*Mac*" Then  
    backSlash = "/"  
Else  
    backSlash = "\"  
End If  
If backSlash = "/" Then ' location of directory for database  
    direc = "Library" + backSlash + "Group Containers" + backSlash + "UBF8T346G9.Office" + backSlash + "MyExcelFolder" + backSlash + "Data" + backSlash + "hideki"  
    ' mac: note "apple" should be replaced with your <username>.  
    'direc = backSlash + "Users" + backSlash + "hidekinakajima" + backSlash + "Library" + backSlash + "Group Containers" + backSlash + "UBF8T346G9.Office" + back  
    'direc = backSlash + "Users" + backSlash + "apple" + backSlash + "Documents" + backSlash + "XPS" + backSlash  
Else ' Windows  
    'direc = "D:\Excel XPS macro\DATA\hideki\XPS\" ' this is for Windows PC with HDD storage.  
    direc = "C:" + backSlash + "Users" + backSlash + "Public" + backSlash + "Data" + backSlash + "hideki" + backSlash + "XPS" + backSlash ' this is for BOOTCAMP  
    'direc = "G:" + backSlash + "Data" + backSlash + "Hideki" + backSlash + "XPS" + backSlash ' test  
End If
```

1

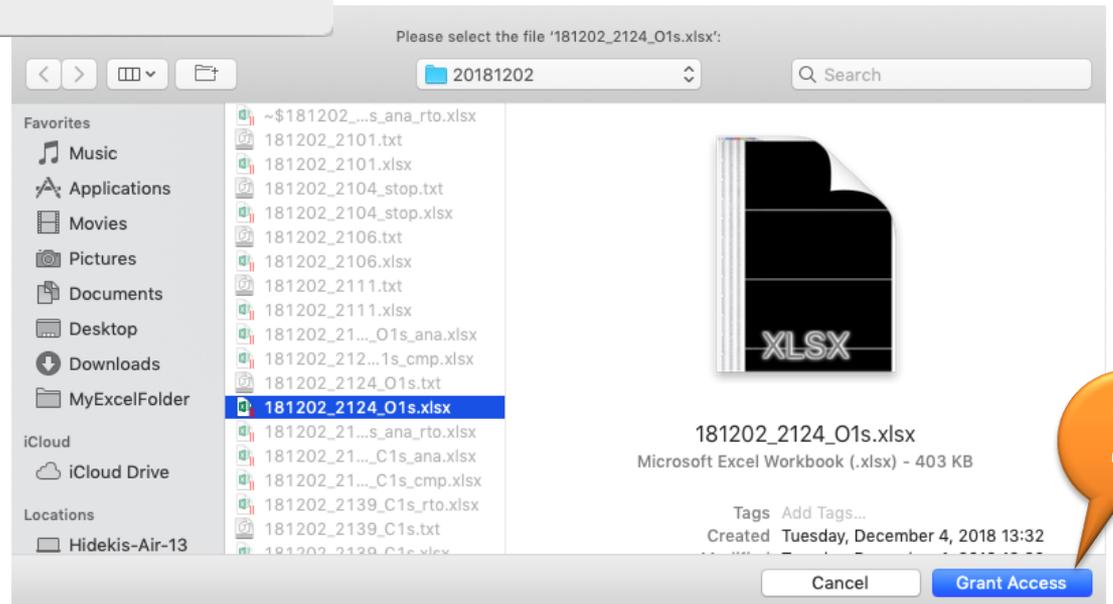
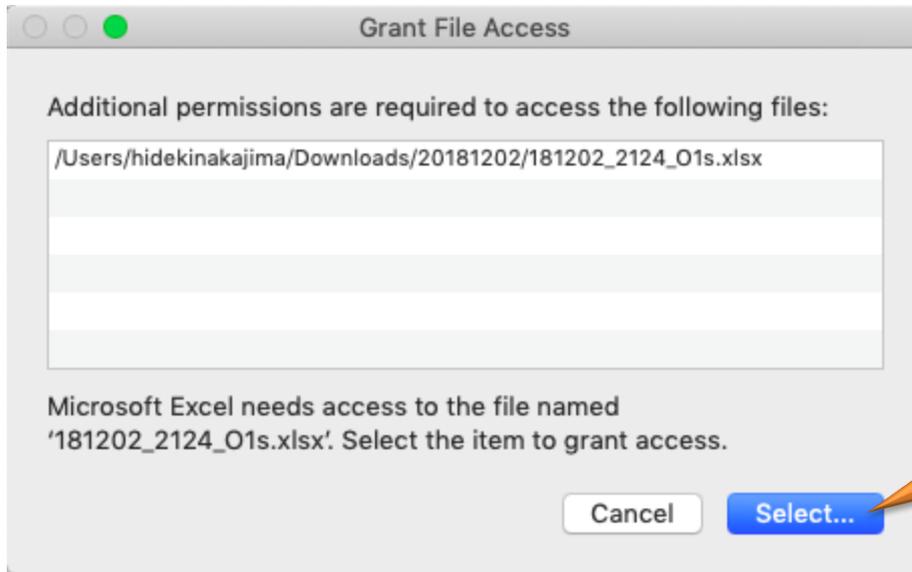
2

Save PERSONAL.XLSB

If you want to analyze the data outside MyExcelFolder

FILE ACCESS GRANT ISSUE

You need to grant file access every first access to the file.



References

- Multiple-file access granted on mac
 - <https://msdn.microsoft.com/en-us/library/office/mt654020.aspx>
 - <https://warwick.ac.uk/fac/sci/systemsbiology/staff/dyer/software/excelvbafileopen/>
 - <https://appuals.com/office-2016-grant-access-error-on-macos/>
- Excel 2016 on Mac updater packages
 - <https://macadmins.software/>
- Excel 2016 on Mac solutions
 - <https://www.rondebruin.nl/mac/mac015.htm>
 - <http://www.rondebruin.nl/mac/mac034.htm>