

Installation Step 1

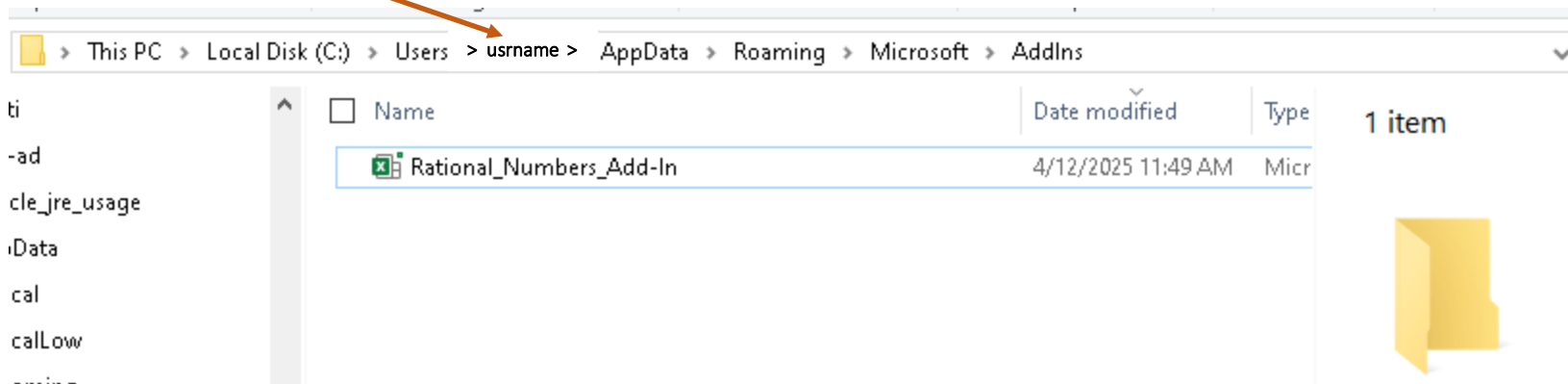
> downloads

 Rational_Numbers_Add-In

Your username here



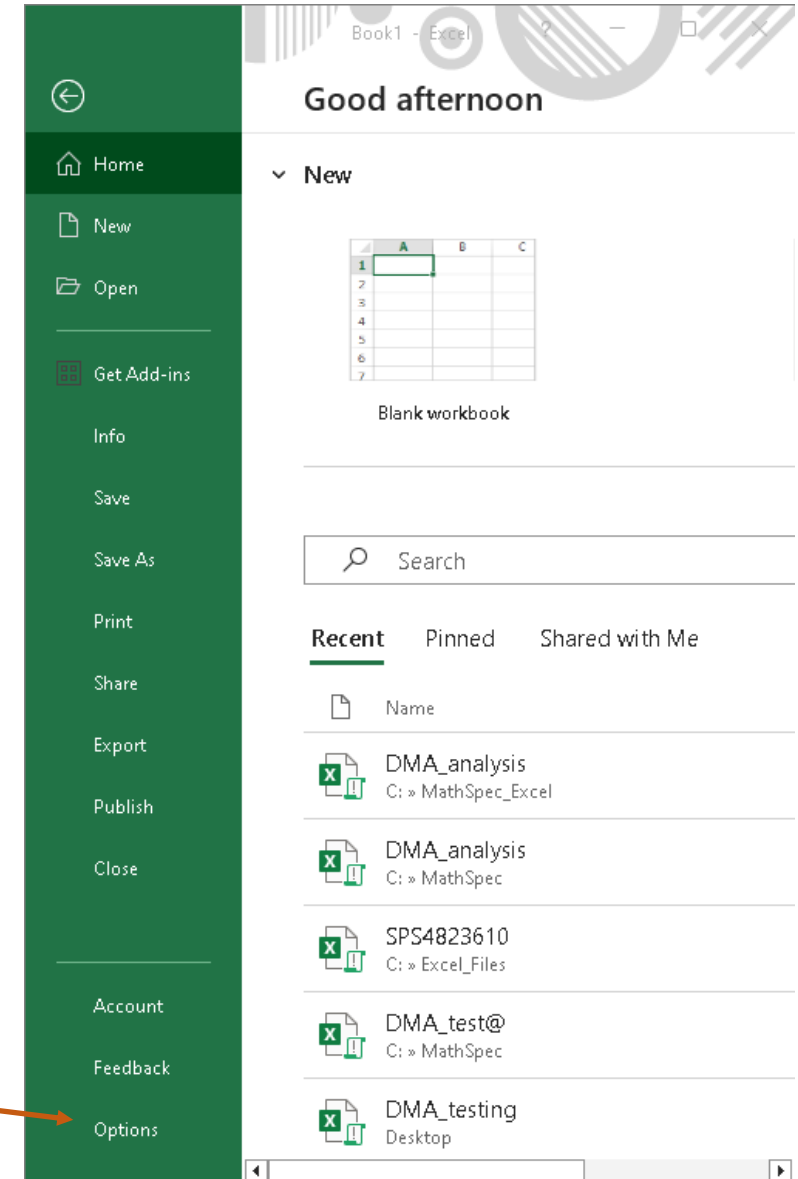
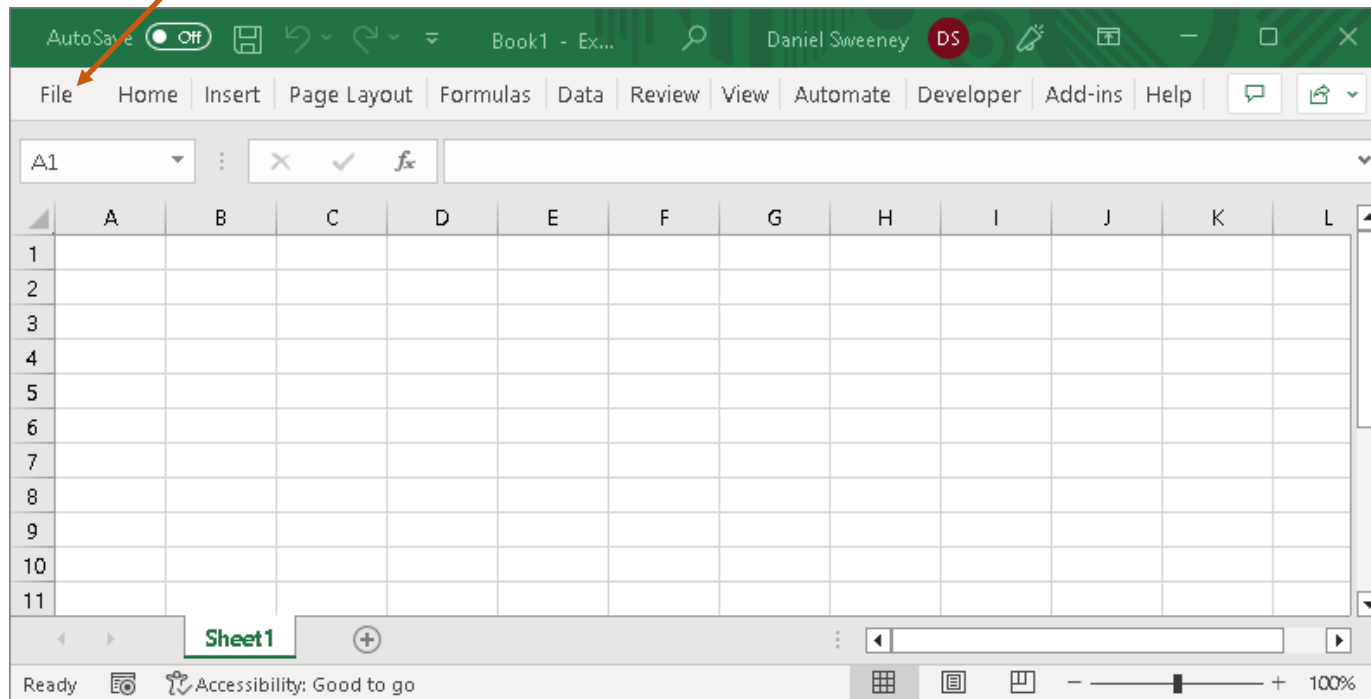
Copy and paste the Excel Add-in file from Downloads into your Addins folder. (The suffix .xlam will not appear in Windows.)



Note: The installation of this Excel Add-In with a code-signing certificate may require IT administrator access!

Installation Step 2

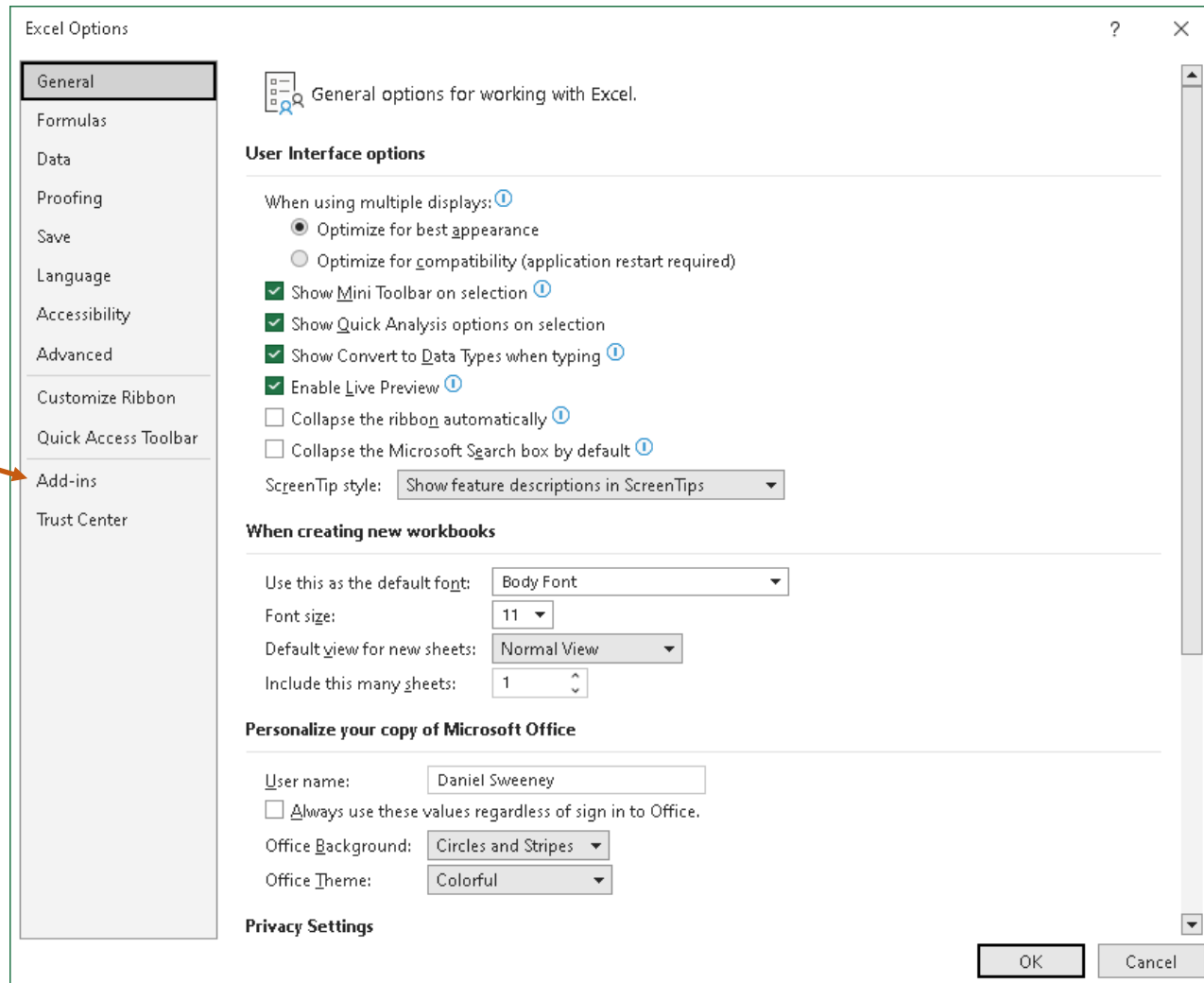
Open a new Excel workbook. Then click on the “File” header



Now click on “Options”

Installation Step 3

On the Options page,
select “Add-Ins”.



Excel Options

General
Formulas
Data
Proofing
Save
Language
Accessibility
Advanced
Customize Ribbon
Quick Access Toolbar
Add-ins
Trust Center

General options for working with Excel.

User Interface options

When using multiple displays:

- ☒ Optimize for best appearance
- ☐ Optimize for compatibility (application restart required)

☒ Show Mini Toolbar on selection

☒ Show Quick Analysis options on selection

☒ Show Convert to Data Types when typing

☒ Enable Live Preview

☐ Collapse the ribbon automatically

☐ Collapse the Microsoft Search box by default

ScreenTip style: Show feature descriptions in ScreenTips

When creating new workbooks

Use this as the default font: Body Font

Font size: 11

Default view for new sheets: Normal View

Include this many sheets: 1

Personalize your copy of Microsoft Office

User name: Daniel Sweeney

☐ Always use these values regardless of sign in to Office.

Office Background: Circles and Stripes

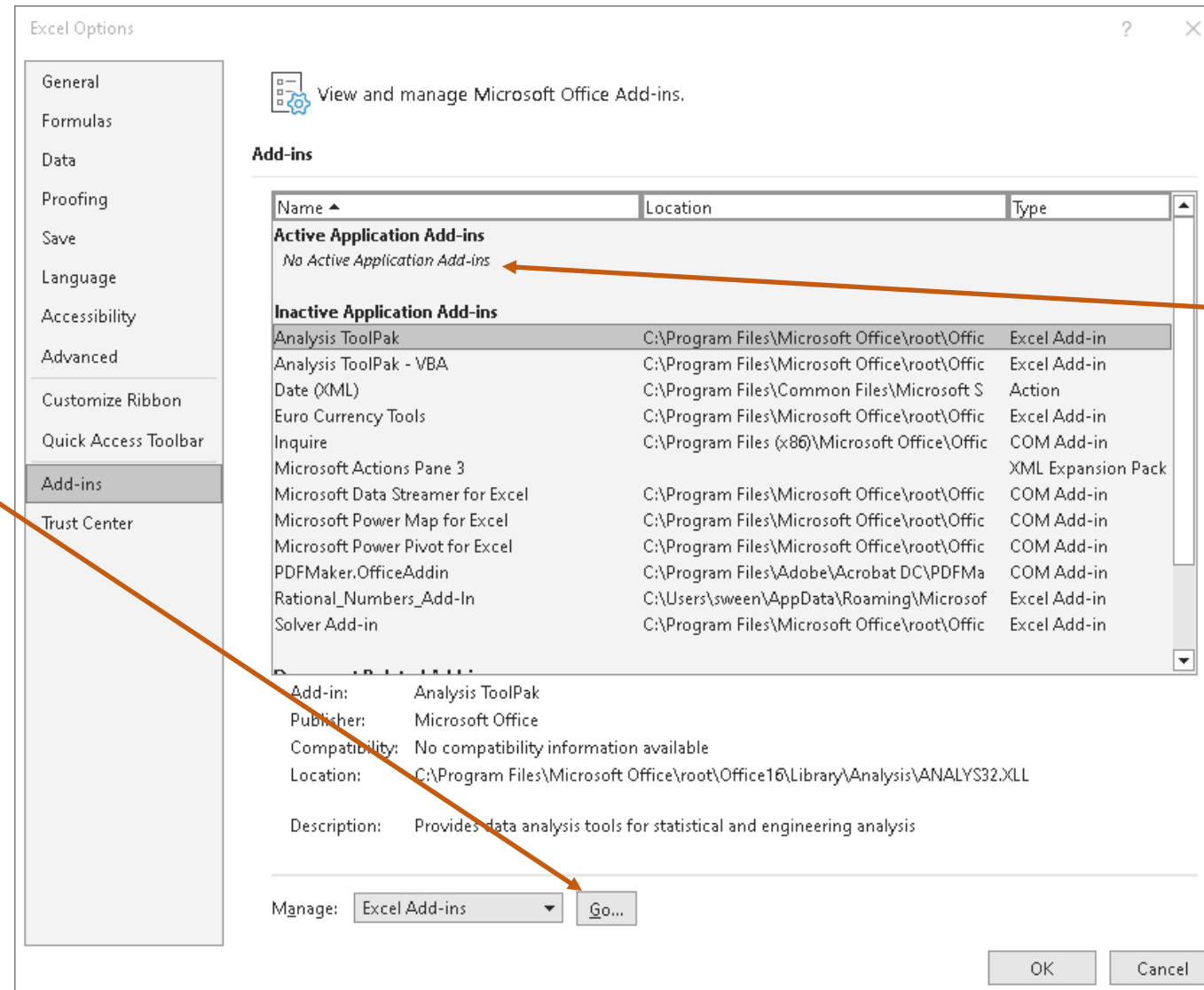
Office Theme: Colorful

Privacy Settings

OK Cancel

Installation Step 4

This brings up a list of available Add-ins. Most Add-ins come standard with Excel. Select “Manage Excel Add-ins – Go..”

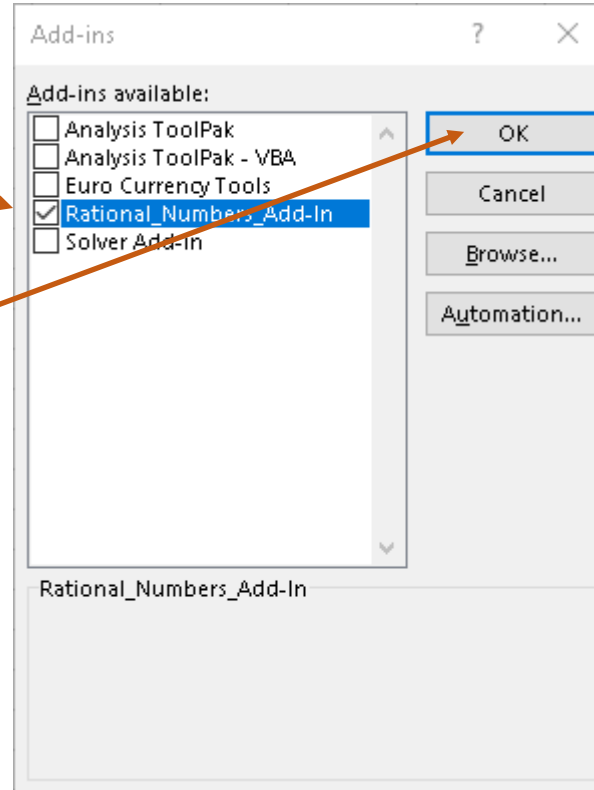


After installation, The Rational Numbers Excel Add-In will appear here.

Installation Step 5

Place a check mark next to
“Rational_Numbers_Add-In”.

Then click OK.



Installation Step 6

The image shows the Microsoft Excel interface. On the left, the 'File' ribbon is open, showing options like Home, New, Open, Get Add-ins, Info, Save, Save As, Print, Share, Export, Publish, Close, Account, Feedback, and Options. An orange arrow points from the 'Options' menu item to the 'Trust Center' option in the 'Excel Options' dialog box. The 'Excel Options' dialog box is open, showing the 'General' tab. The 'Trust Center' option is highlighted in the left sidebar. The main area of the dialog shows 'User Interface options' and 'When creating new workbooks' settings. The 'OK' and 'Cancel' buttons are at the bottom right.

Good afternoon

New

Blank workbook

Search

Recent Pinned Shared with Me

DMA_analysis
C:\> MathSpec_Excel

DMA_analysis
C:\> MathSpec

SPS4823610
C:\> Excel_Files

DMA_test@
C:\> MathSpec

DMA_testing
Desktop

Excel Options

General

Formulas

Data

Proofing

Save

Language

Accessibility

Advanced

Customize Ribbon

Quick Access Toolbar

Add-ins

Trust Center

General options for working with Excel.

User Interface options

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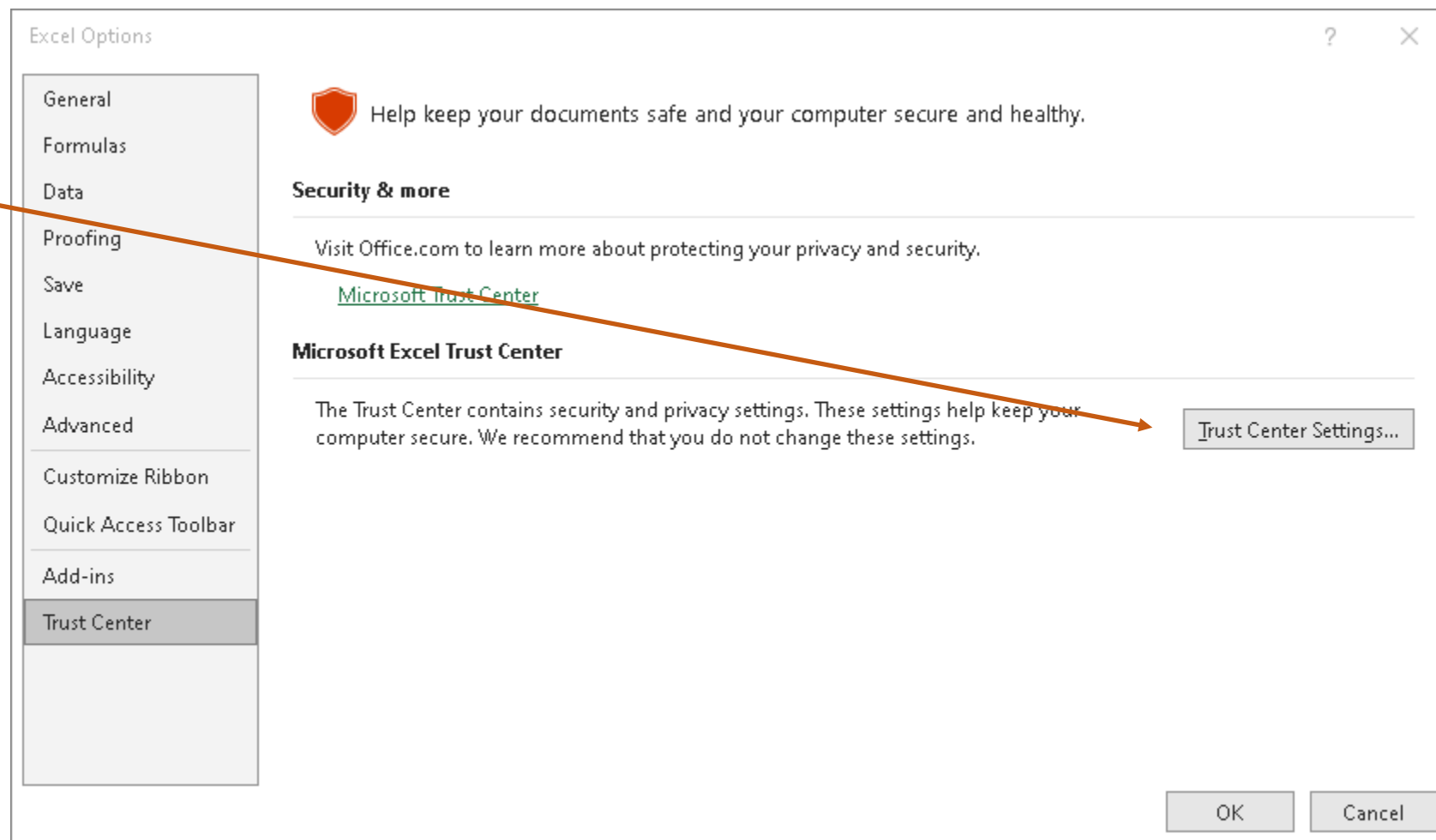
Privacy Settings

OK Cancel

Go back to File -> Options. This time Select "Trust Center".

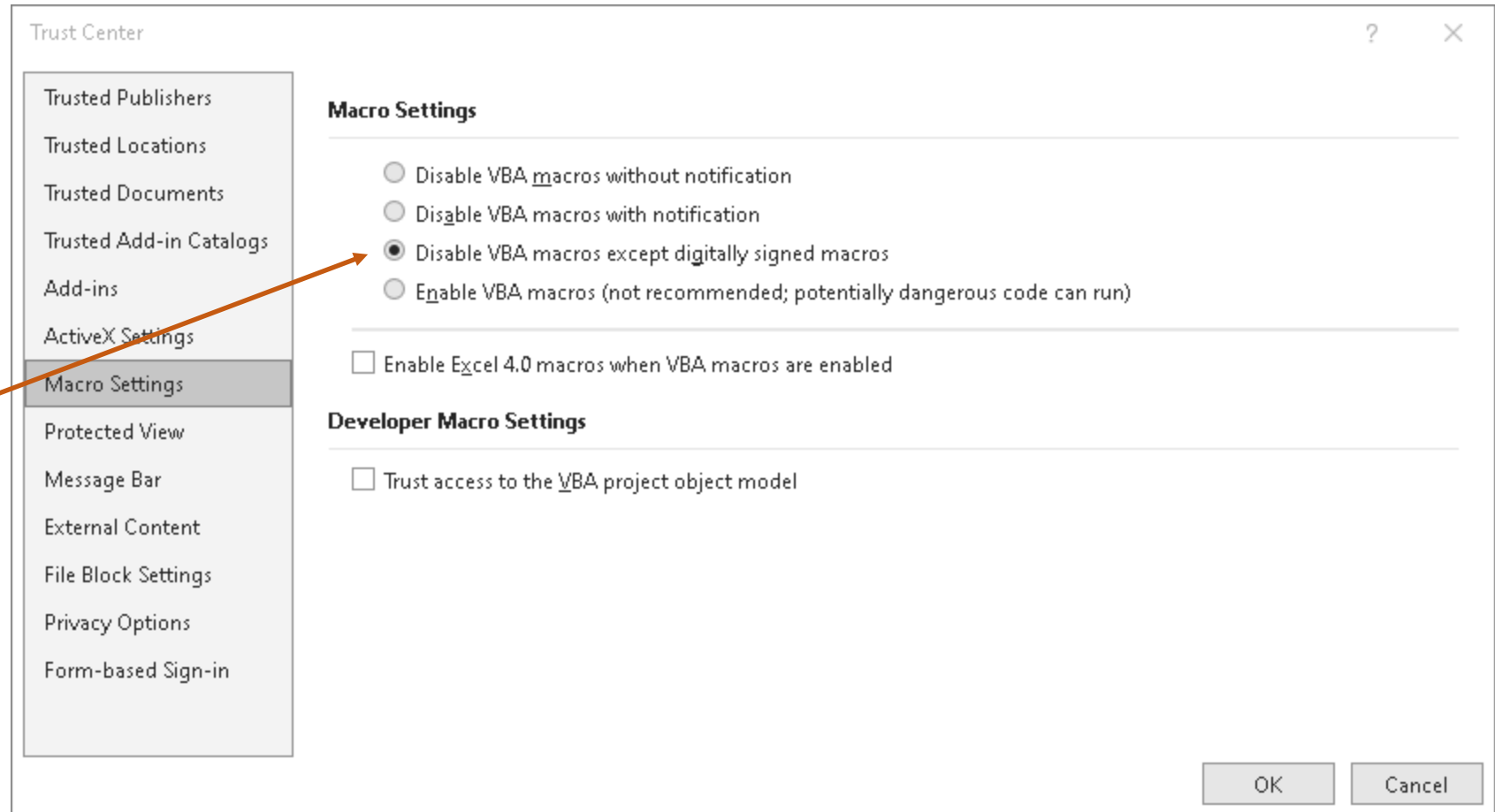
Installation Step 7

Select “Trust Center Settings”



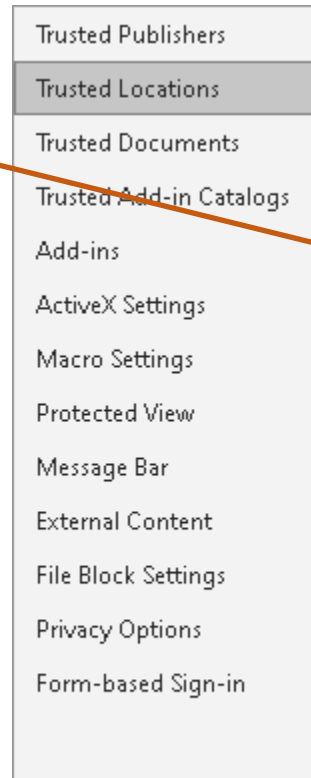
Installation Step 8

Under “Macro Settings”, select option “Disable VBA macros except digitally signed macros”



Installation Step 9

It is also necessary to create a folder to hold (.xlsm) files with the trusted macro and designate it as a “Trusted Location”. (Choose any name and location for the folder.) The code-signing certificate is not sufficient.



Trusted Locations

Warning: All these locations are treated as trusted sources for opening files. If you change or add a location, make sure that the new location is secure.

Path	Description	Date Modified ▼
User Locations		
C:\Excel_Files\		4/12/2025 1:52 PM
Policy Locations		

Path: C:\Excel_Files\

Description:

Date Modified: 4/12/2025 1:52 PM

Sub Folders: Allowed

Add new location...

Remove

Modify...

☐ Allow Trusted Locations on my network (not recommended)

☐ Disable all Trusted Locations

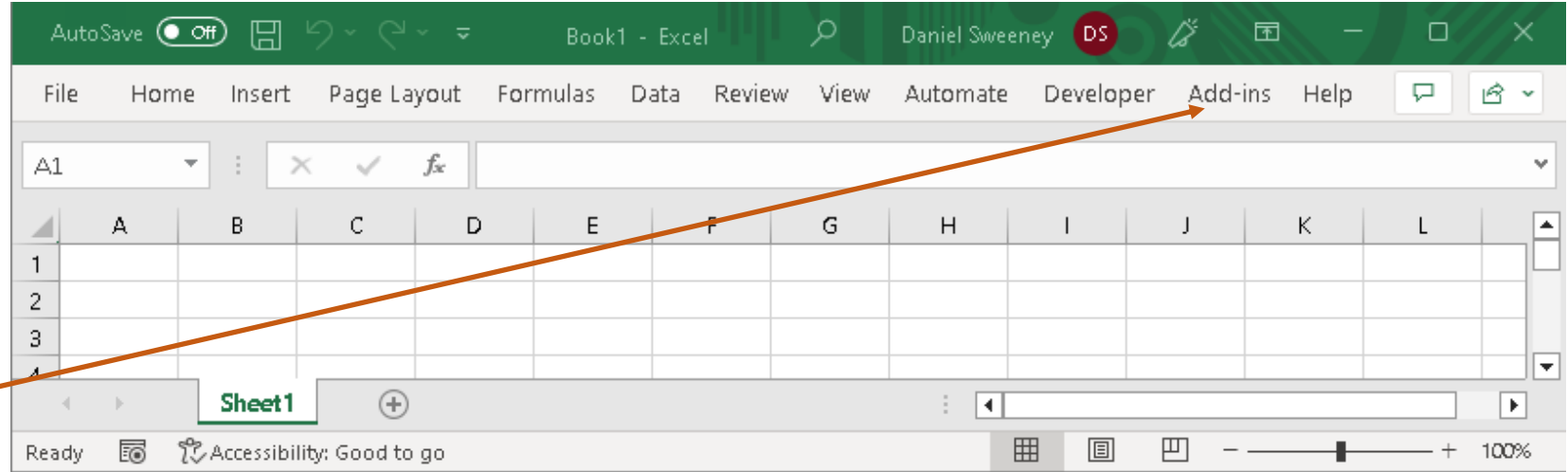
OK

Cancel

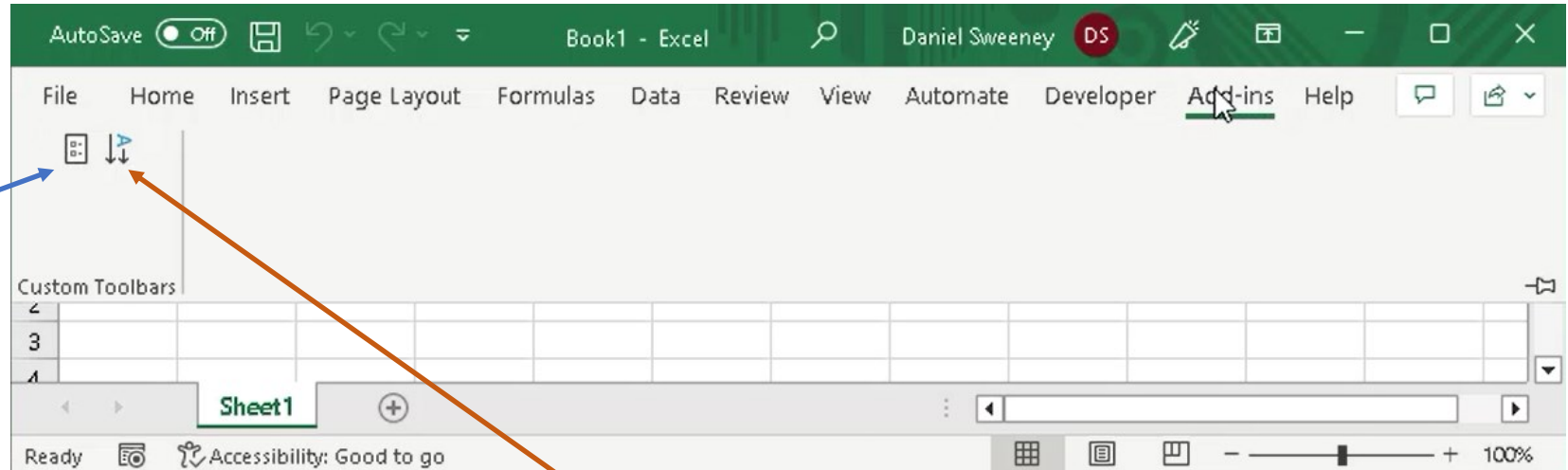
Installation Step 10

Completely exit from Excel.
Open a new Excel workbook.

Look for a new header, “Add-ins”.
Click on “Add-ins”.



(The icon on the left side is
used to initiate subformula
and subfragment mass
searches.)



Click on the icon on the right side to launch the
Rational Numbers Excel Add-in.

Installation Step 11

To view the code-signing certificate, select “Developer”.

The screenshot shows the Microsoft Excel interface with the 'Developer' tab selected. The spreadsheet contains a form for entering mass spectrometry data. The form is divided into several sections:

- MS/MS Data (ms2)**: Located in columns A and B, it includes fields for 'Mass' and 'Intensity'.
- Isotope (ms1) Data**: Located in columns D, E, and F, it includes fields for 'Molecular Ion', '1st isotope', '2nd isotope', '3rd isotope', and '4th isotope'. It also has a 'Mass (optional)' field and an 'Intensity' field.
- Parameters**: Located in columns D and E, it includes a section for 'Element Maxima (Optional)' with a table for 'Element' and 'Maximum'.
- Transform!**: A button located in column G, row 7.

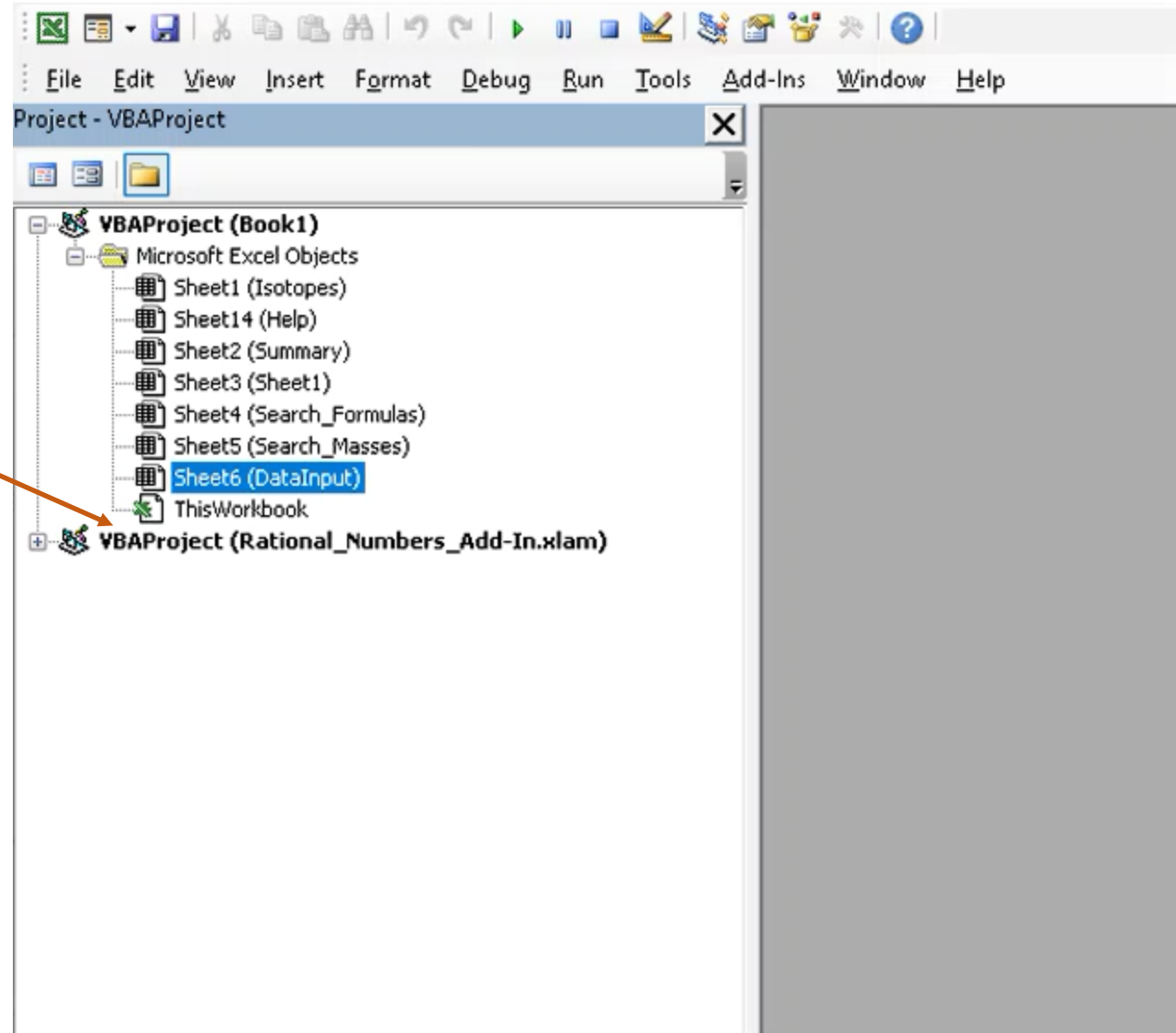
The 'Developer' tab is highlighted in the ribbon, and an orange arrow points to it from the text 'To view the code-signing certificate, select “Developer”.'.

Mass	Intensity	Isotope (ms1) Data
		Molecular Ion
		1st isotope
		2nd isotope
		3rd isotope
		4th isotope

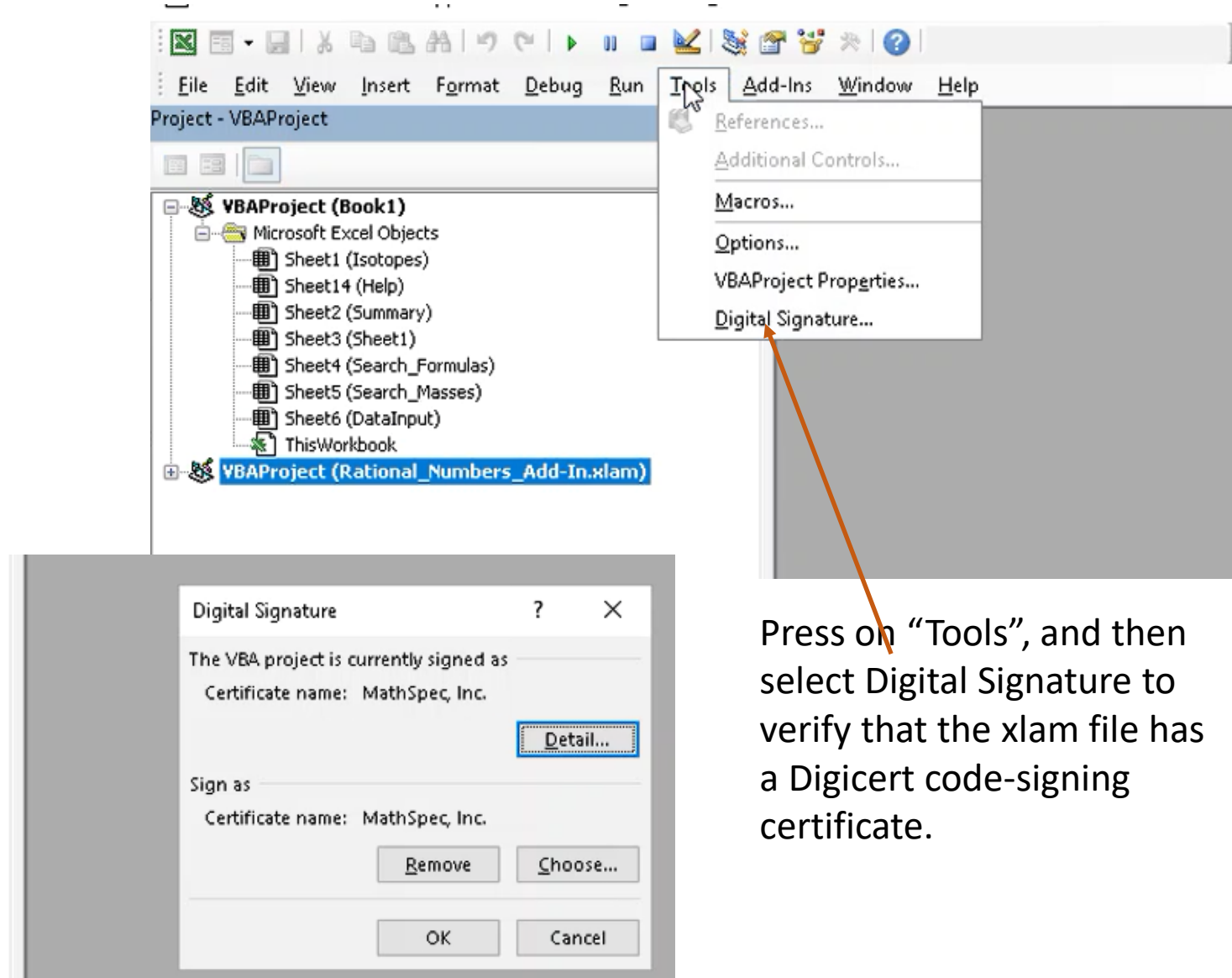
Element	Maximum
C	
H	
N	
O	
S	
P	
F	
Cl	
Br	

Installation Step 12

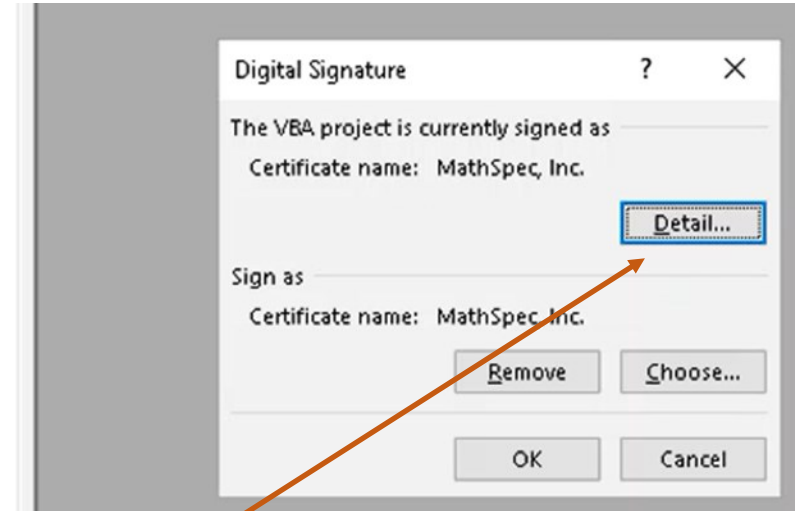
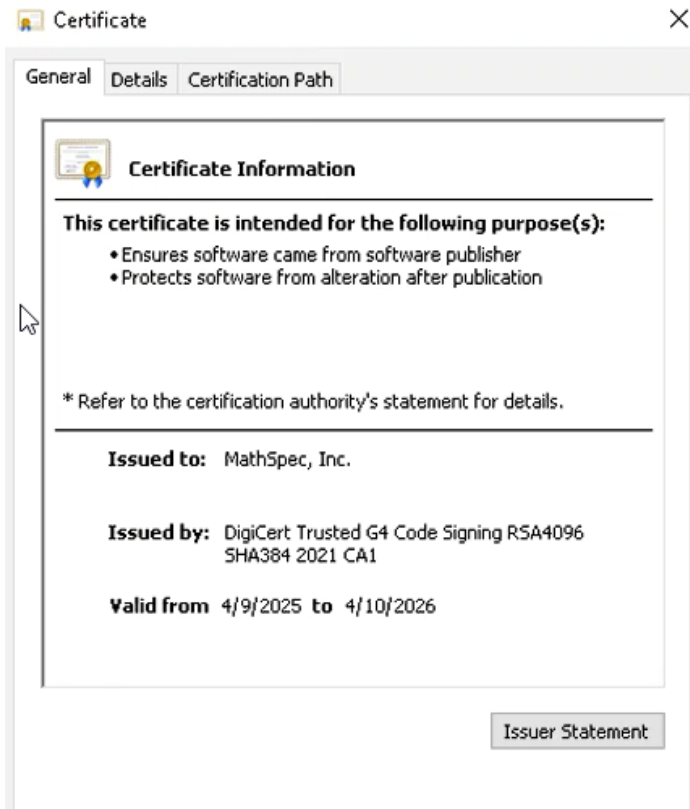
Now select VBAProject



Installation Step 13



Installation Step 14



Click Detail... to see the
Certificate Information

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