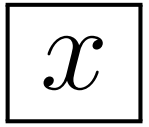
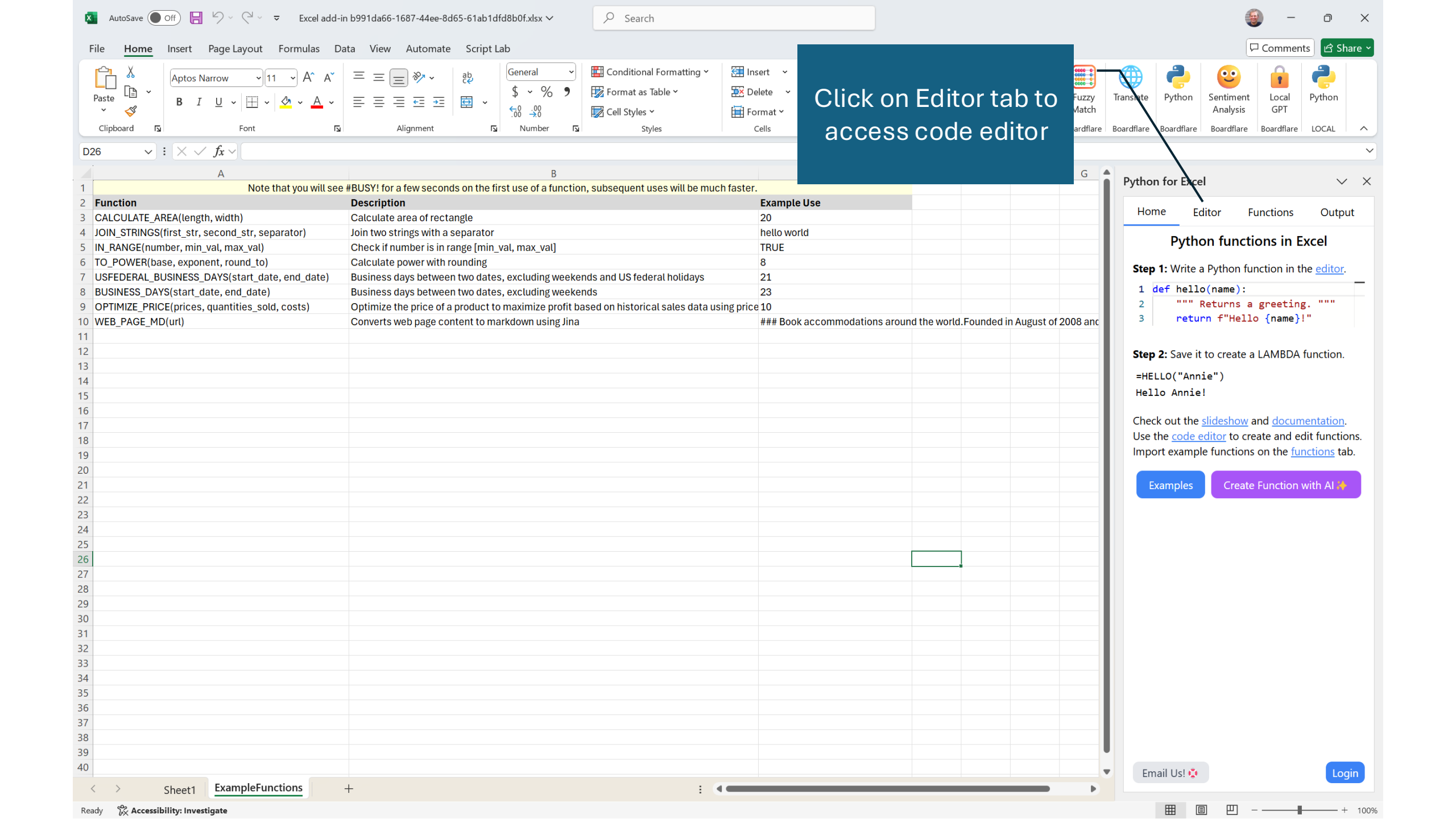


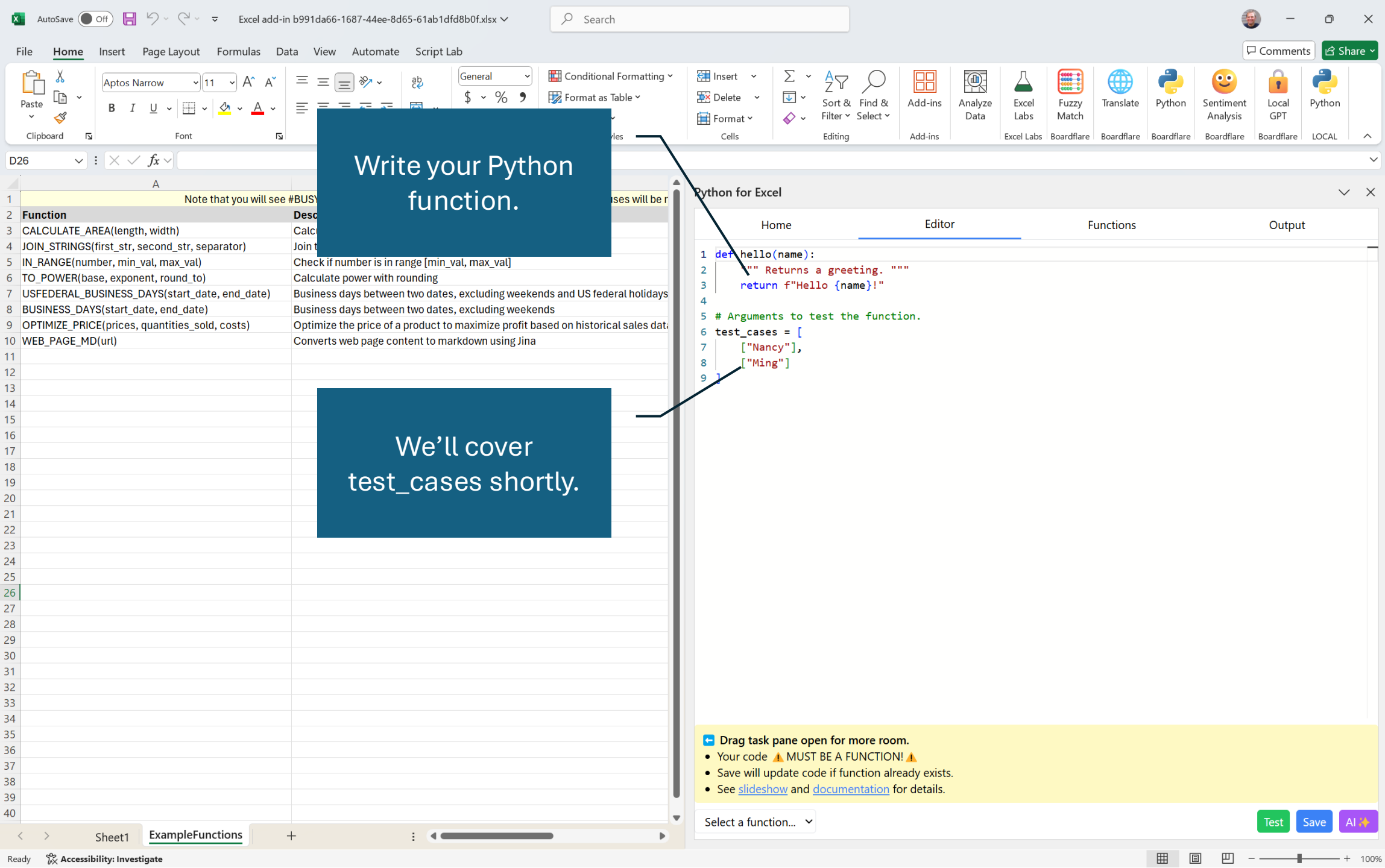
BOARDFLARE

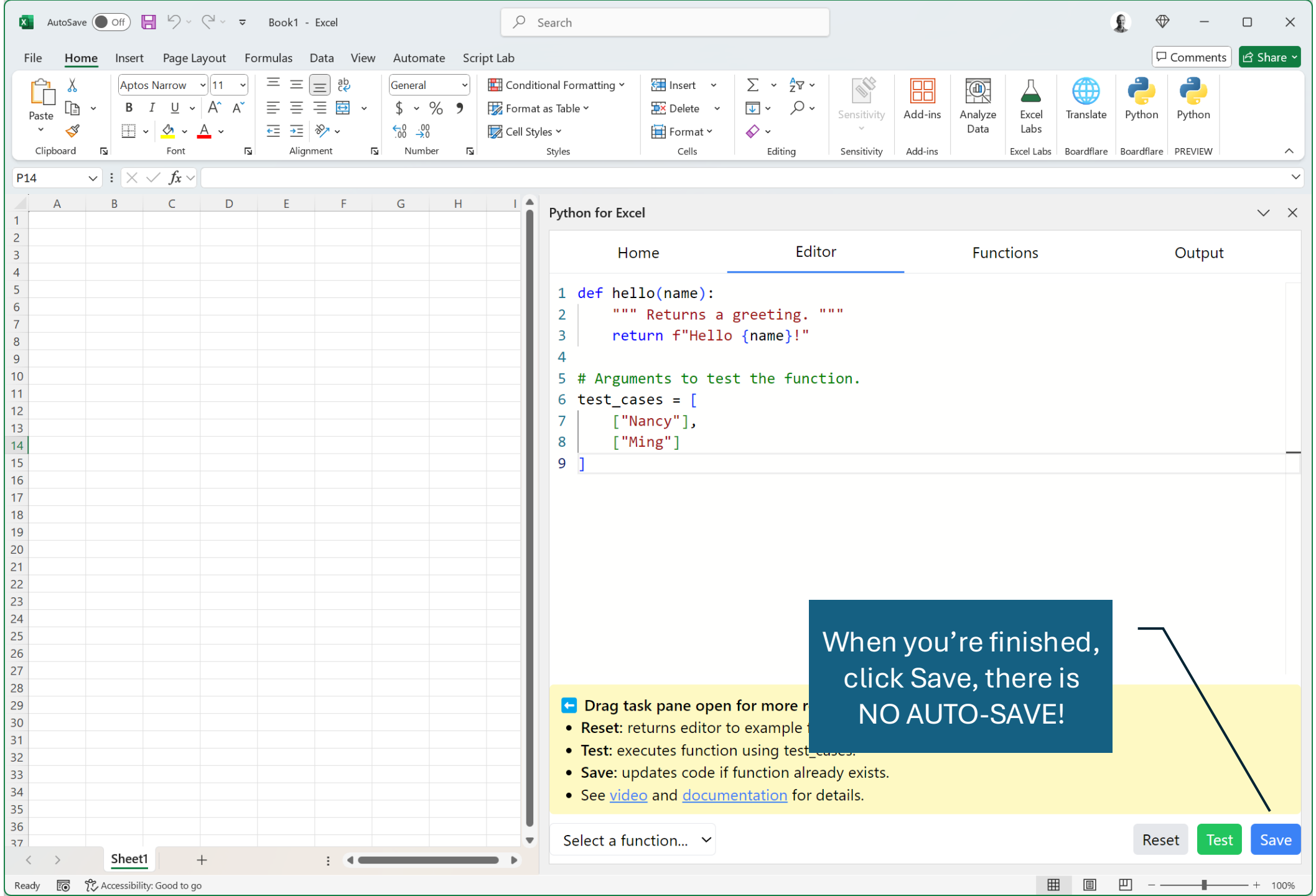
Python for Excel

Version 1.2.1

February 23, 2025


Click on Editor tab to access code editor
Note that you will see #BUSY! for a few seconds on the first use of a function, subsequent uses will be much faster.
Function | Description | Example Use
CALCULATE_AREA(length, width) | Calculate area of rectangle | 20
JOIN_STRINGS(first_str, second_str, separator) | Join two strings with a separator | hello world
IN_RANGE(number, min_val, max_val) | Check if number is in range [min_val, max_val] | TRUE
TO_POWER(base, exponent, round_to) | Calculate power with rounding | 8
USFEDERAL_BUSINESS_DAYS(start_date, end_date) | Business days between two dates, excluding weekends and US federal holidays | 21
BUSINESS_DAYS(start_date, end_date) | Business days between two dates, excluding weekends | 23
OPTIMIZE_PRICE(prices, quantities_sold, costs) | Optimize the price of a product to maximize profit based on historical sales data using price | 10
WEB_PAGE_MD(url) | Converts web page content to markdown using Jina | ### Book accommodations around the world.Founded in August of 2008 anc
Python for Excel
Home
Editor
Functions
Output
Python functions in Excel
Step 1: Write a Python function in the editor.
def hello(name):
"""Returns a greeting."""
return f"Hello {name}!"
Step 2: Save it to create a LAMBDA function.
=HELLO("Annie")
Hello Annie!
Check out the slideshow and documentation.
Use the code editor to create and edit functions.
Import example functions on the functions tab.
Examples
Create Function with AI
Email Us!
Login
Sheet1
ExampleFunctions
Ready
Accessibility: Investigate


Excel add-in b991da66-1687-44ee-8d65-61ab1dfd8b0f.xlsx
Search
File Home Insert Page Layout Formulas Data View Automate Script Lab
Comments Share
Write your Python function.
We'll cover test_cases shortly.
Python for Excel
Home Editor Functions Output
def hello(name):
"" Returns a greeting. """
return f"Hello {name}!"
# Arguments to test the function.
test_cases = [
["Nancy"],
["Ming"]
]
Drag task pane open for more room.
Your code ⚠ MUST BE A FUNCTION! ⚠
Save will update code if function already exists.
See slideshow and documentation for details.
Select a function...
Test
Save
AI
Function
CALCULATE_AREA(length, width)
JOIN_STRINGS(first_str, second_str, separator)
IN_RANGE(number, min_val, max_val)
TO_POWER(base, exponent, round_to)
USFEDERAL_BUSINESS_DAYS(start_date, end_date)
BUSINESS_DAYS(start_date, end_date)
OPTIMIZE_PRICE(prices, quantities_sold, costs)
WEB_PAGE_MD(url)
Check if number is in range [min_val, max_val]
Calculate power with rounding
Business days between two dates, excluding weekends and US federal holidays
Business days between two dates, excluding weekends
Converts web page content to markdown using Jina
Sheet1
ExampleFunctions
Ready
Accessibility: Investigate
100%


AutoSave Off
Book1 - Excel
Search
File Home Insert Page Layout Formulas Data View Automate Script Lab
Comments Share
Paste
Aptos Narrow 11
General
Conditional Formatting
Format as Table
Cell Styles
Insert
Delete
Format
Sensitivity
Add-ins
Analyze Data
Excel Labs
Translate
Python
Python
Clipboard Font Alignment Number Styles Cells Editing Sensitivity Add-ins Excel Labs Boardflare Boardflare PREVIEW
P14
Python for Excel
Home Editor Functions Output
def hello(name):
""" Returns a greeting. """
return f"Hello {name}!"
# Arguments to test the function.
test_cases = [
["Nancy"],
["Ming"]
]
When you're finished, click Save, there is NO AUTO-SAVE!
Drag task pane open for more r
Reset: returns editor to example
Test: executes function using test_cases.
Save: updates code if function already exists.
See video and documentation for details.
Select a function...
Reset
Test
Save
Sheet1
Ready
Accessibility: Good to go
100%

Home | Editor | Functions | Output

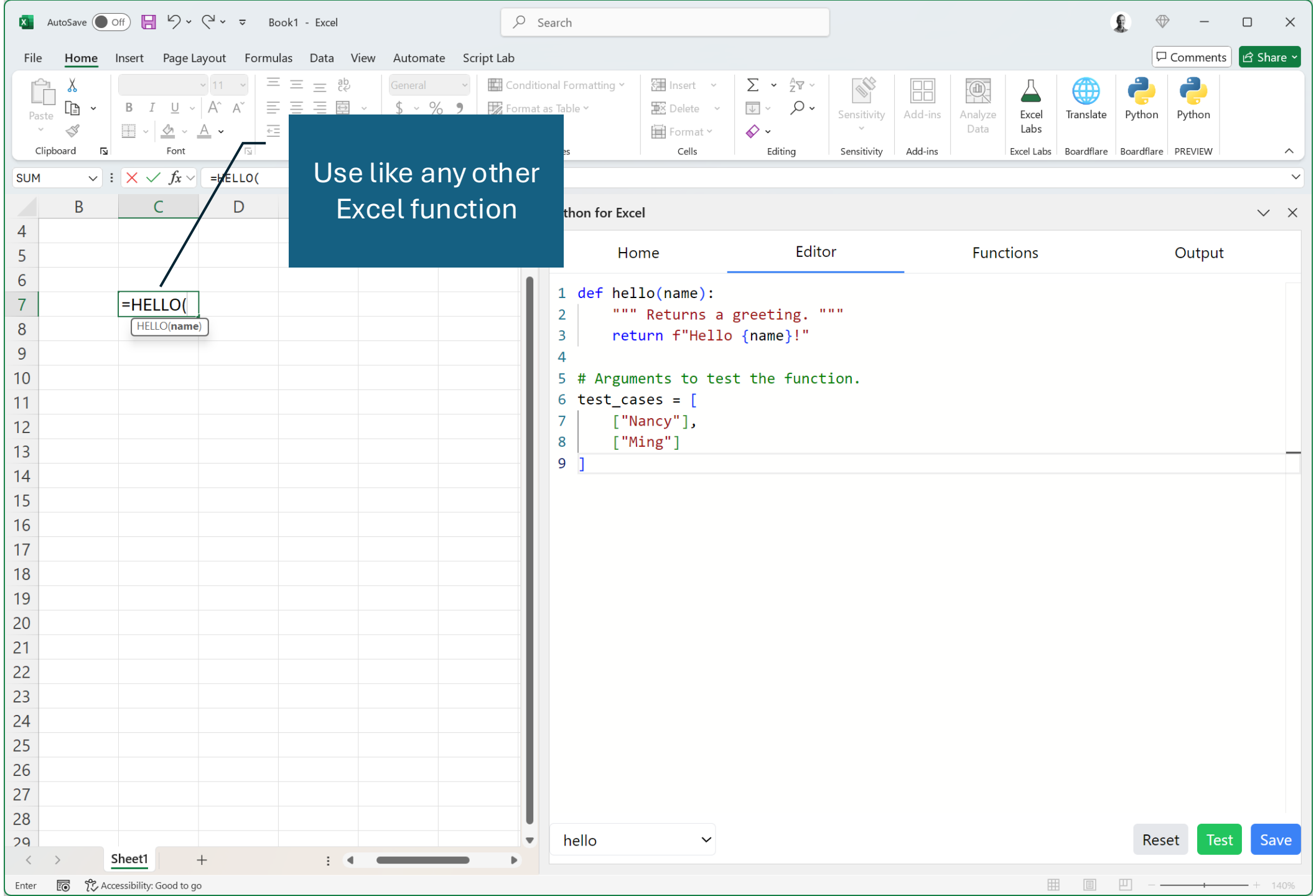
```python
def hello(name):
    """ Returns a greeting. """
    return f"Hello {name}!"

# Arguments to test the function.
test_cases = [
    ["Nancy"],
    ["Ming"]
]
```

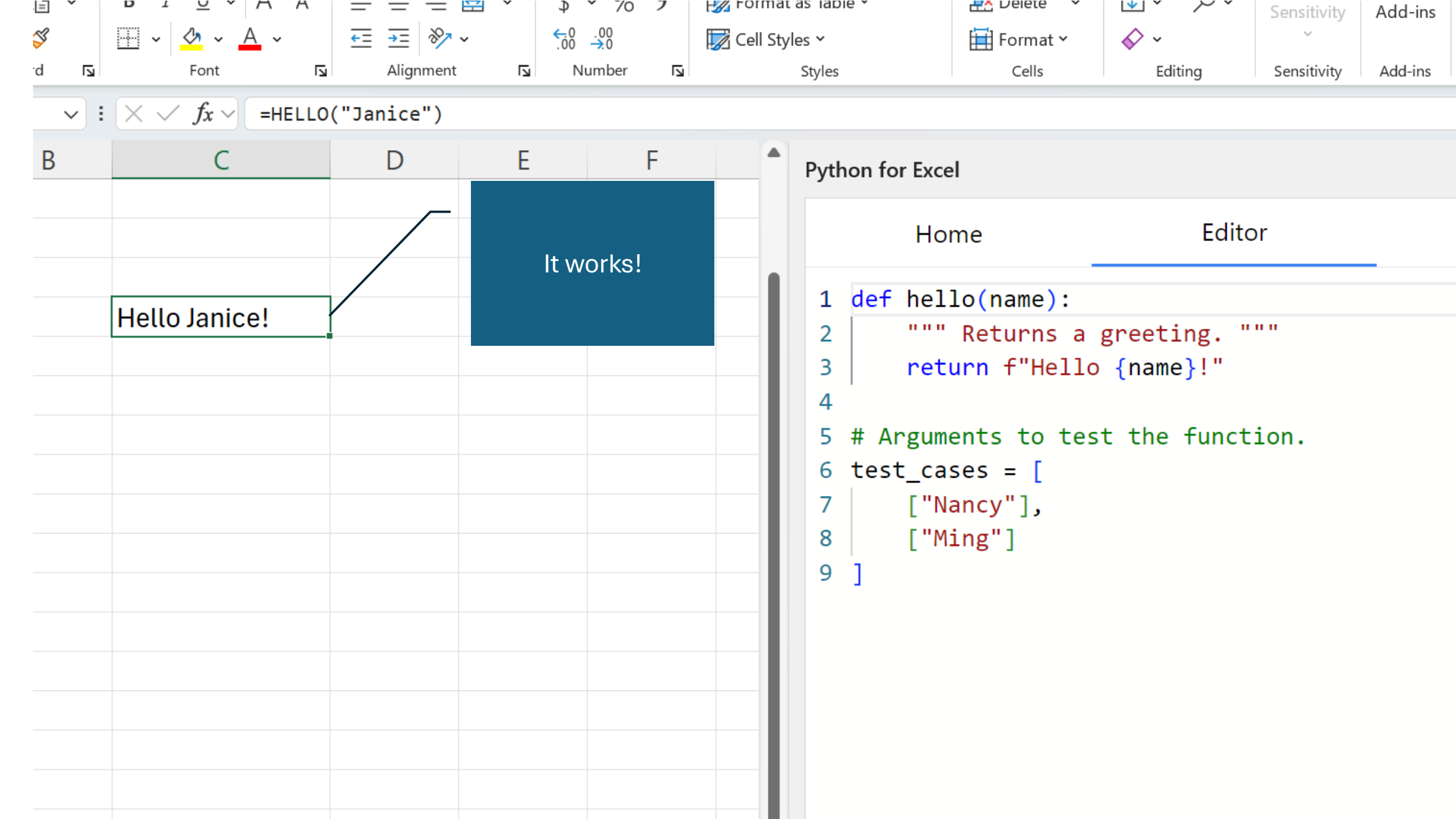
After clicking Save, the LAMBDA function is created.

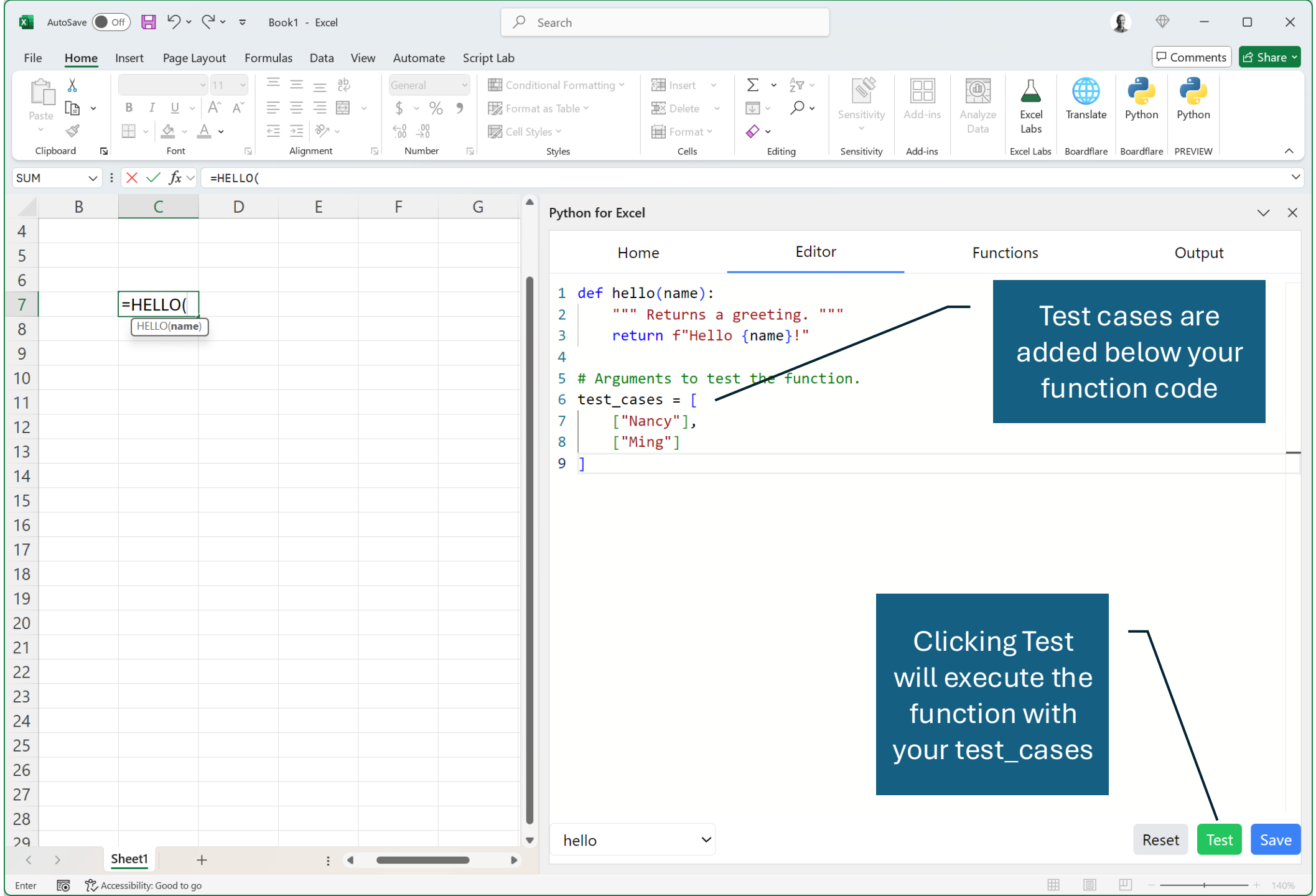
HELLO(name) saved!

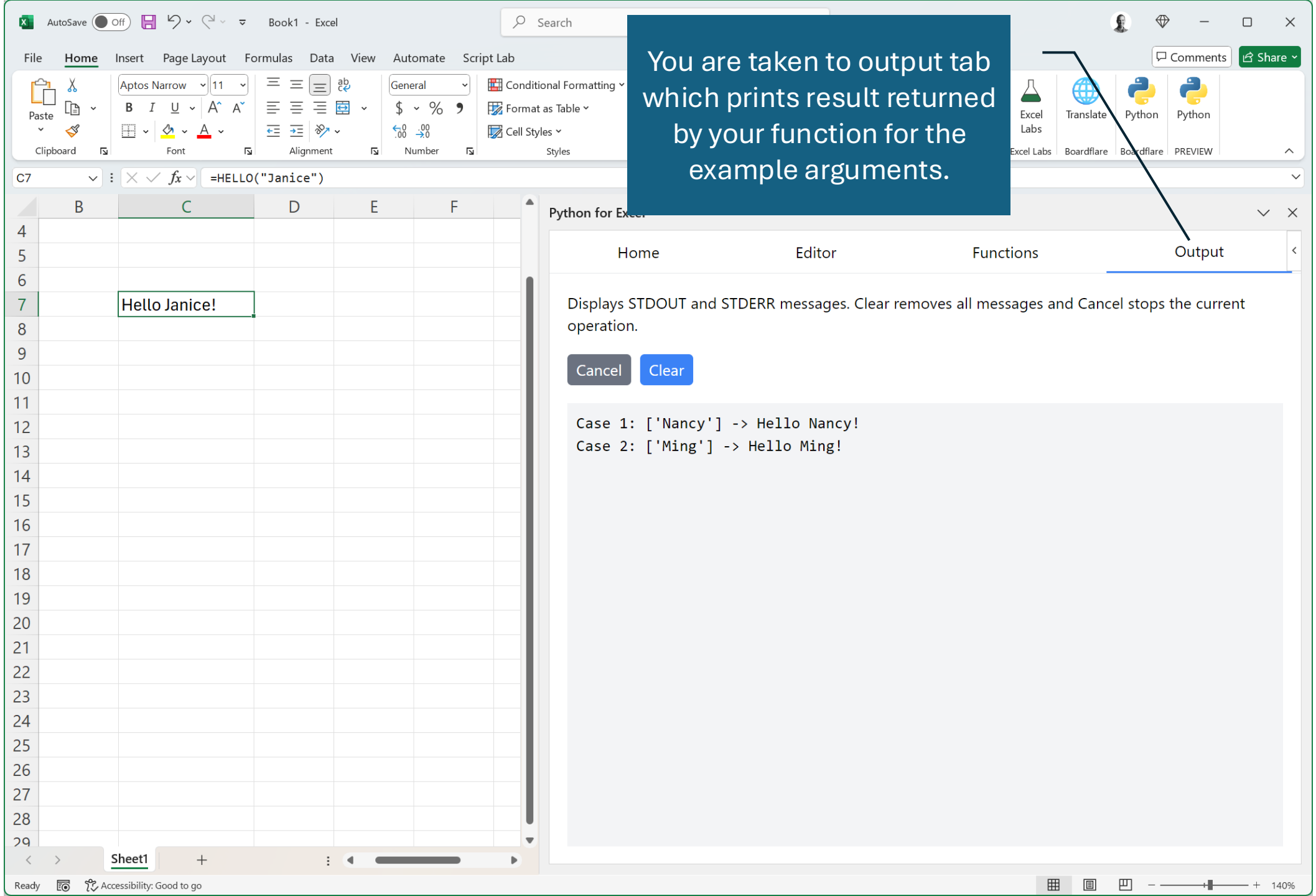
hello

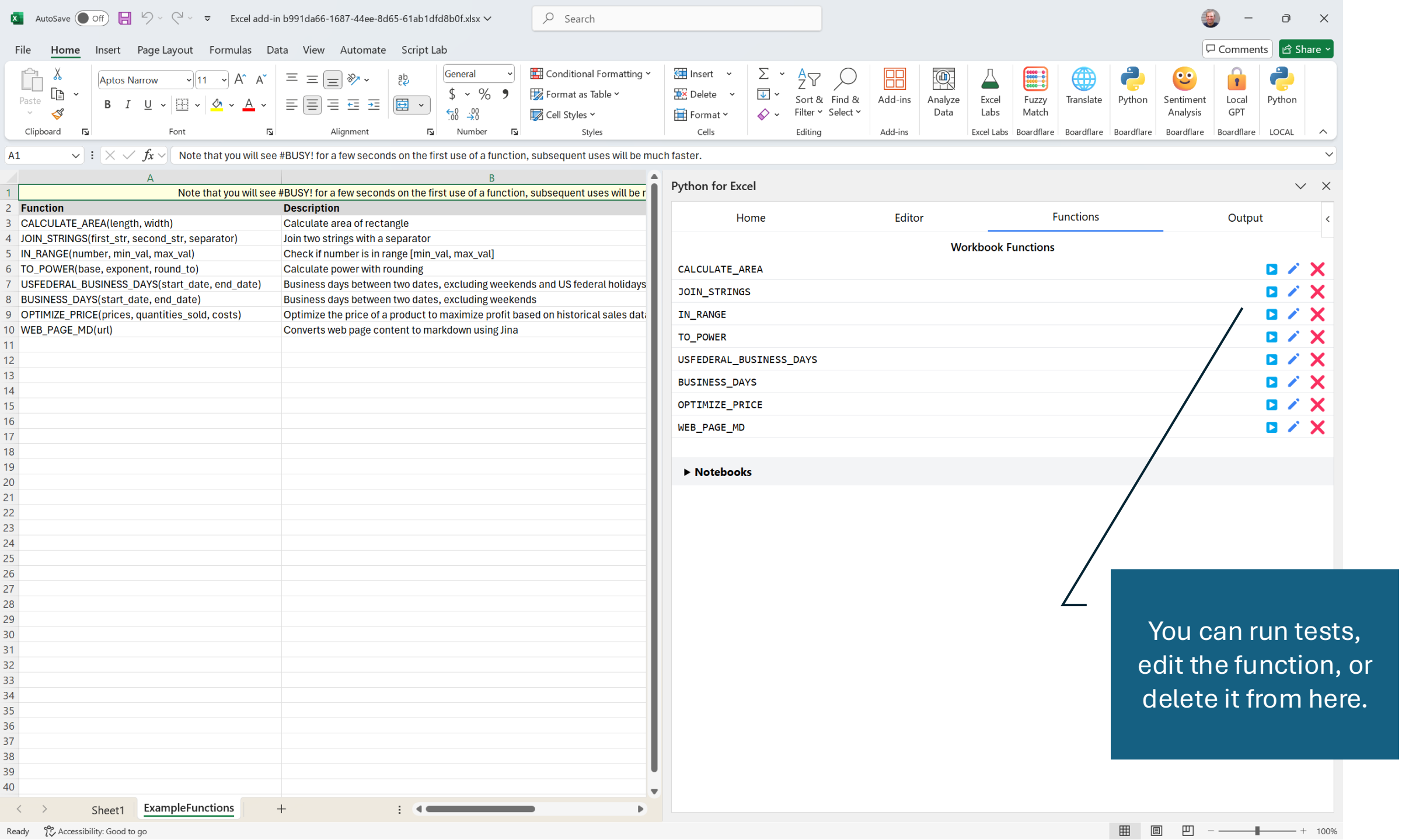
Reset | Test | Save

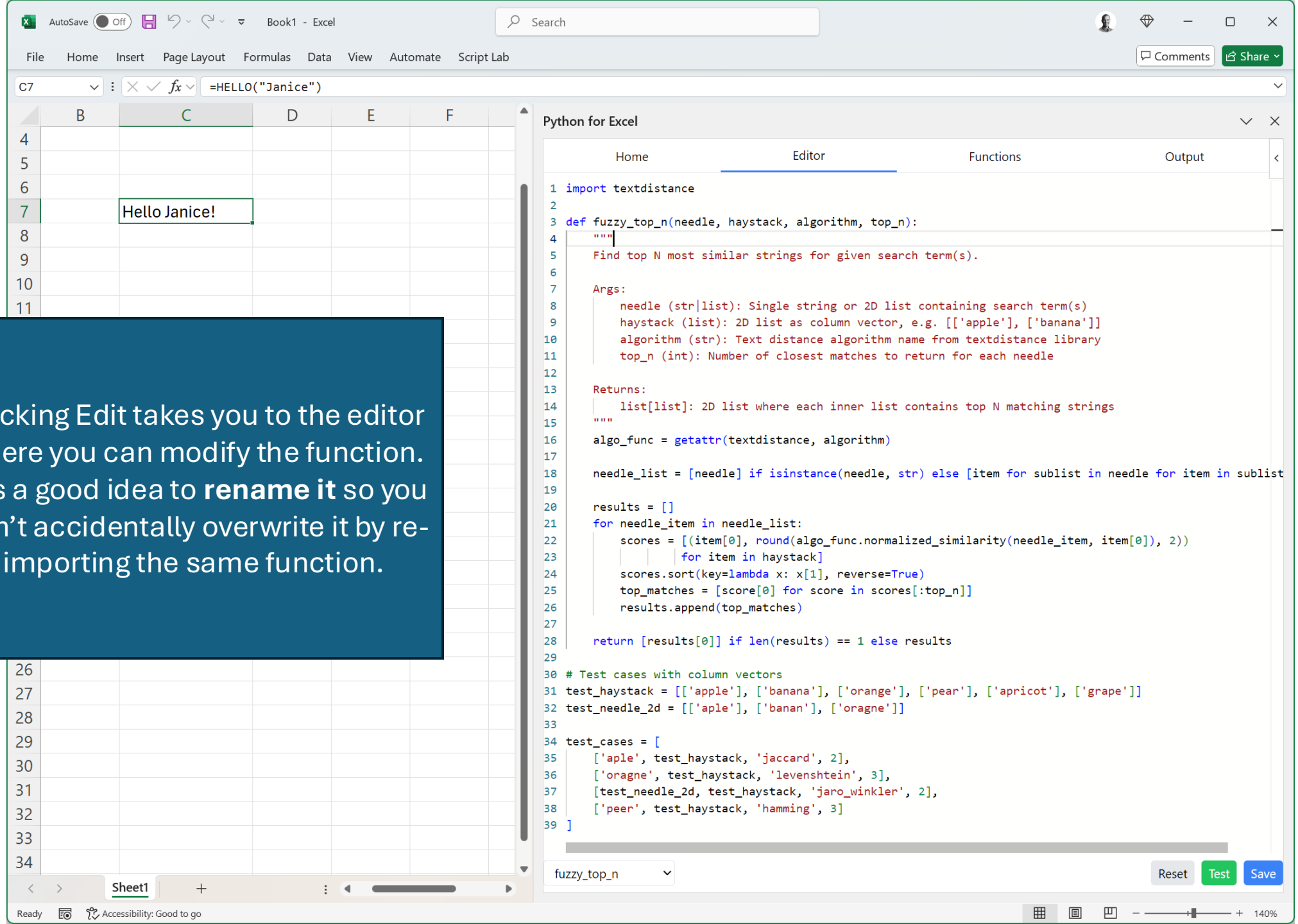

Book1 - Excel
Search
File
Home
Insert
Page Layout
Formulas
Data
View
Automate
Script Lab
Comments
Share
Use like any other Excel function
SUM
=HELLO(
=HELLO(
HELLO(name)
thon for Excel
Home
Editor
Functions
Output
def hello(name):
""" Returns a greeting. """
return f"Hello {name}!"
# Arguments to test the function.
test_cases = [
["Nancy"],
["Ming"]
]
hello
Reset
Test
Save
Sheet1
Enter
Accessibility: Good to go


Font
Alignment
Number
Cell Styles
Styles
Format
Cells
Editing
Sensitivity
Add-ins
=HELLO("Janice")
B
C
D
E
F
Hello Janice!
It works!
Python for Excel
Home
Editor
1 def hello(name):
2 """ Returns a greeting. """
3 return f"Hello {name}!"
4
5 # Arguments to test the function.
6 test_cases = [
7 ["Nancy"],
8 ["Ming"]
9]


AutoSave Off
Book1 - Excel
Search
File Home Insert Page Layout Formulas Data View Automate Script Lab
Comments
Share
Paste
Clipboard
Font
Alignment
Number
Conditional Formatting
Format as Table
Cell Styles
Styles
Insert
Delete
Format
Cells
Editing
Sensitivity
Add-ins
Analyze Data
Excel Labs
Translate
Python
Python
PREVIEW
SUM
=HELLO(
B C D E F G
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
=HELLO(
HELLO(name)
Sheet1
Enter
Accessibility: Good to go
Python for Excel
Home
Editor
Functions
Output
1 def hello(name):
2 """ Returns a greeting. """
3 return f"Hello {name}!"
4
5 # Arguments to test the function.
6 test_cases = [
7 ["Nancy"],
8 ["Ming"]
9]
Test cases are added below your function code
Clicking Test will execute the function with your test_cases
hello
Reset
Test
Save
140%


You are taken to output tab which prints result returned by your function for the example arguments.
Book1 - Excel
Search
File
Home
Insert
Page Layout
Formulas
Data
View
Automate
Script Lab
Comments
Share
Paste
Clipboard
Aptos Narrow
11
Font
Alignment
General
Number
Conditional Formatting
Format as Table
Cell Styles
Styles
Excel Labs
Translate
Python
Python
Excel Labs
Boardflare
Boardflare
PREVIEW
C7
=HELLO("Janice")
Hello Janice!
Python for Excel
Home
Editor
Functions
Output
Displays STDOUT and STDERR messages. Clear removes all messages and Cancel stops the current operation.
Cancel
Clear
Case 1: ['Nancy'] -> Hello Nancy!
Case 2: ['Ming'] -> Hello Ming!
Sheet1
Ready
Accessibility: Good to go
140%


Excel add-in b991da66-1687-44ee-8d65-61ab1dfd8b0f.xlsx
Search
File Home Insert Page Layout Formulas Data View Automate Script Lab
Comments Share
Note that you will see #BUSY! for a few seconds on the first use of a function, subsequent uses will be much faster.
Note that you will see #BUSY! for a few seconds on the first use of a function, subsequent uses will be r
Function
Description
CALCULATE_AREA(length, width)
Calculate area of rectangle
JOIN_STRINGS(first_str, second_str, separator)
Join two strings with a separator
IN_RANGE(number, min_val, max_val)
Check if number is in range [min_val, max_val]
TO_POWER(base, exponent, round_to)
Calculate power with rounding
USFEDERAL_BUSINESS_DAYS(start_date, end_date)
Business days between two dates, excluding weekends and US federal holidays
BUSINESS_DAYS(start_date, end_date)
Business days between two dates, excluding weekends
OPTIMIZE_PRICE(prices, quantities_sold, costs)
Optimize the price of a product to maximize profit based on historical sales dat
WEB_PAGE_MD(url)
Converts web page content to markdown using Jina
Sheet1
ExampleFunctions
Python for Excel
Home
Editor
Functions
Output
Workbook Functions
CALCULATE_AREA
JOIN_STRINGS
IN_RANGE
TO_POWER
USFEDERAL_BUSINESS_DAYS
BUSINESS_DAYS
OPTIMIZE_PRICE
WEB_PAGE_MD
Notebooks
You can run tests, edit the function, or delete it from here.
Ready
Accessibility: Good to go
100%



Clicking Edit takes you to the editor where you can modify the function. It is a good idea to **rename it** so you don't accidentally overwrite it by re-importing the same function.