**SCRIPT FILE FAILURE & PYTHON PATH ERROR**

I am new to Python (but not programming) and looking for help in understanding how Python Interpreter interacts with PATH and PYTHONPATH environment variables in Windows 11 64bit environment.

Python 3.10 initially installed from Microsoft Store but then uninstalled for later version from python.org.

Python 3.11 installed in C:\python311 using Python.org download and selecting "Add Python to PATH" during installation. Windows Path includes relevant standard python entries and both IDLE and python launch correctly.

Sub directory C:\python311\my\_python\_files created to store user script files.

C:\python311\my\_python \_files added to User environment variables and additional PYTHONPATH C:\python311\my\_python\_files also added to User environment variables.

Simple hello\_world.py script file saved in C:\Python311\my\_python\_files. Script runs correctly from IDLE and also from Cmd line C:\Users\jerry>hello\_world.py

Following execution attempts all fail:

C:\Users\jerry>python hello\_world

python: can't open file 'C:\\Users\\jerry\\hello\_world': [Errno 2] No such file or directory

C:\python311\my\_python\_files>python hello\_world

python: can't open file 'C:\\python311\\my\_python\_files\\hello\_world': [Errno 2] No such file or directory

C:\Users\jerry>python

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> hello\_world

Traceback (most recent call last):

 File "<stdin>", line 1, in <module>

NameError: name 'hello\_world' is not defined

>>>

C:\python311\my\_python\_files>python

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> hello\_world

Traceback (most recent call last):

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NameError: name 'hello\_world' is not defined

>>>

The current User path variables are: (I note C:\python\my\_python\_files appears twice, presumably from Path and PYTHONPATH)

C:\python311\my\_python\_files> echo %path%

C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:\WINDOWS\system32;C:\WINDOWS;

C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0\;C:\WINDOWS\System32\OpenSSH\;C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\DAL;

C:\Program Files\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files (x86)\Windows Live\Shared;C:\python311\my\_python\_files;C:\python311\my\_python\_files;

C:\python311\Scripts\;C:\python311\;C:\Users\jerry\AppData\Local\Microsoft\WindowsApps;

(This last entry may be leftover from initial Microsft Store install)

Sys.path variables when imported are:

sys.path

>>> import sys

>>> sys.path

['', 'C:\\python311\\my\_python\_files', 'C:\\python311\\python311.zip', 'C:\\python311\\Lib', 'C:\\python311\\DLLs','C:\\python311', 'C:\\python311\\Lib\\site-packages']

The hello\_world script runs correctly when "Imported" into the Interpreter and also using runpy.

Any guidance on how Path and Python interact gratefully received.