

Steps:

One time procedure

1. Save the files provided (SUTB.xlsm and SUTB.py) in a specific folder. These files need to remain in the same folder and share the name (SUTB).
2. Install Python
e.g., from <https://www.python.org/downloads/windows/>, or <https://www.spyder-ide.org/#section-download>
3. Open Python
4. Install xlwings [add-in to connect Python with Excel] writing the following command directly on Python command (and press enter)

```
pip install xlwings
```

```
Warning: pylab (numpy and matplotlib) and symbolic math (sympy) are both
enabled at the same time. Some pylab functions are going to be overridden by
the sympy module (e.g. plot)
```

```
In [1]: pip install xlwings|
```

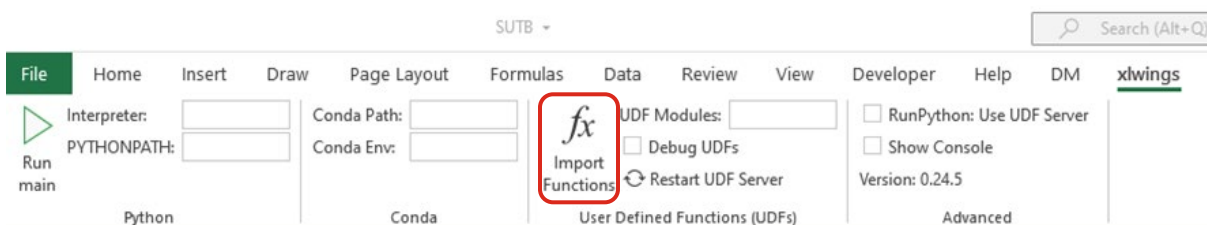
* This screenshot is from Python

5. This procedure will either install the add-in or will indicate if the add in is already installed

Either way, record the path where the add-in is located to retrieve it in the next step from Excel (e.g., "C:\ProgramData\anaconda3\Lib\site-packages\xlwings\addin")

6. Open Excel file provided (SUTB.xlsm)
7. Add the xlwings add-in by going to File/Options/Add-ins, select Excel Add-ins/Go... Then choose browse and go to the folder recorded in 5. Select xlwings/OK

A new tab should appear on the menu bar: xlwings – this will connect Excel with Python via User Defined Functions (UDF) (loaded in the .py file)



8. If the previous steps were successfully taken, click on "Import Functions" under the xlwings tab. After a few seconds, a new formula (SUTB) should be available in excel. Formulas included in SUTB.py will be available in Excel, after importing them.