**LOONE Quick Guide**

**Packages:** Platypus

**Installing Guide:**

1. Through Python, browse to the LOONE\_Model Folder in your computer.
2. In the Model\_Config script, Edit the working\_Path to match the directory in your computer and choose the simulation type (i.e., scenario simulation, optimization validation, or optimization scenario).
3. Update all the required Data into the Data Folder.
4. Design the simulation via the Pre\_defined\_Variables script through changing the different parameters.
5. You can run a simulation scenario through the LOONE\_Scen\_Run script: First, the LOONE\_Q module is executed and then the LOONE\_Nut module is executed using the outputs from LOONE\_Q module as inputs.
6. You can run an optimization scenario through LOONE\_Opt script where you can design the optimization problem (the decision variables, the objective functions, and the constraints).