

Python in the VE

Utilising external libraries

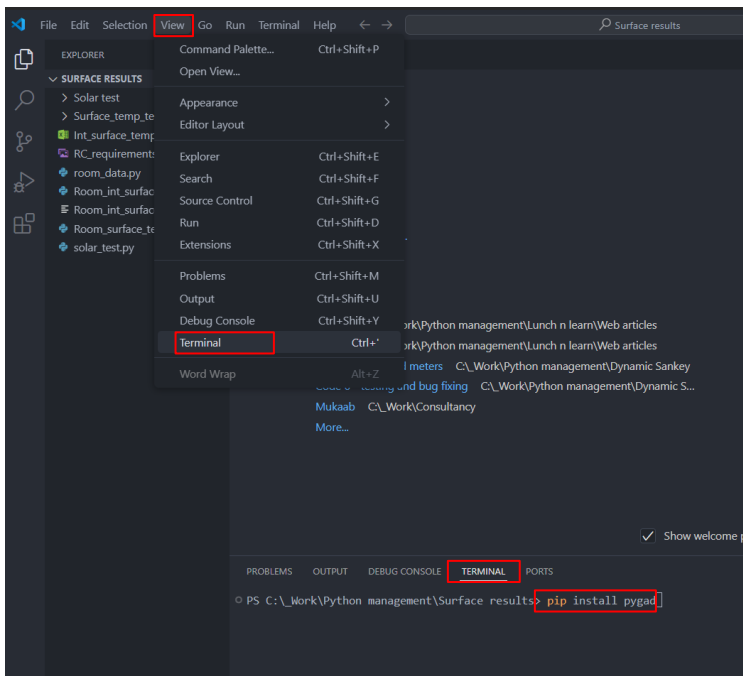
What? How to use non-bound libraries with VE Scripts

Why? VE Scripts is shipped with Python standard libraries and Python libraries that are regularly used in the context of tasks in the VE. If other libraries are required it is still possible to use them, however the library will need to be installed on a local version of Python that matches the VE Python version and then configured as a path in VE Scripts

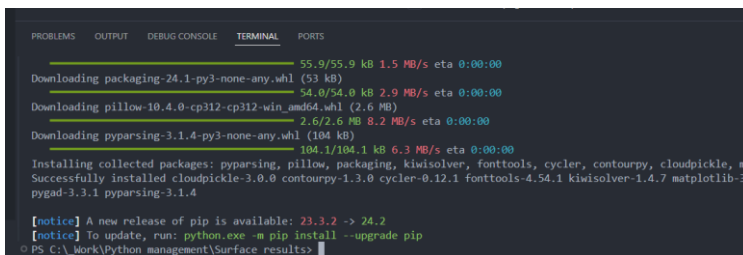
In this article we will demonstrate installing the PyGAD library and in the adjacent article we then use it to create a Multiple objective Genetic optimisation script

1. Download and install Python (e.g. from <https://www.python.org/downloads>), preferably matching the VE version so that you get a compatible package

2. Open a terminal (e.g. Visual Studio Code, PowerShell etc) and install the package by typing 'pip install <Package>', substituting <Package> for the name of the package you want to install. So for PyGAD, 'pip install pygad'.



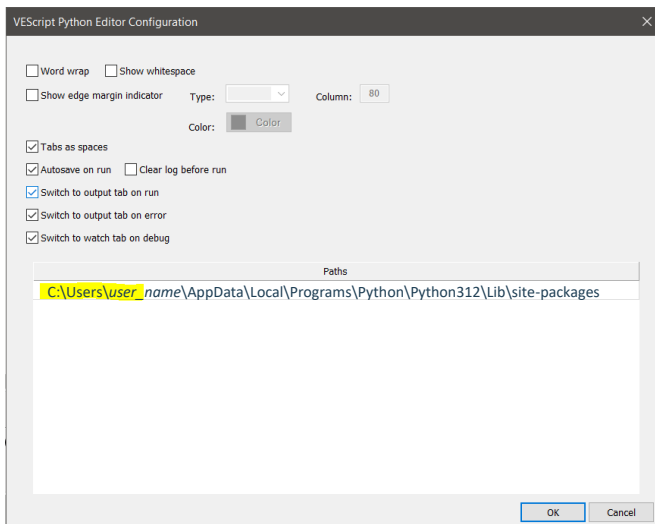
Press return and PyGAD and dependencies will be downloaded and installed.



3. Open the scripting console in the VE and click the Configure toolbar button.



4. Add the location of the installed package(s) to the 'Paths' section and click ok.



5. Test it works ... run a test VE Script containing ... *Import Pygad*