PL401μ Optimisation Practices and Tips for Python Code

Mission 2: Optimising Python code

This assessment evaluates the following competencies:

- *PP701 – Understand main Python idioms*
- *PP702 – Write good Pythonic code for small programs*

You may also be assessed on the following competencies:

- *PP601 – Measure the execution time of a given Python program*
- *PP602 – Profile the execution of a given Python program*
- *PP703 – Optimise a Python program to improve execution speed*
- *PP704 – Install and run a Python program on different Python virtual machines*

This mission asks you to find a technique to optimise a Python code and demonstrate its effects thanks to measurements and/or profiling.

To succeed the mission, you have to present the technique you found, explain the example code you made (before and after optimisation) and show the results of your analysis to assess that you did improve time and/or space usage.

Note that a given technique can only be presented by a single student and should not have been covered during the course. As soon as you found such a technique, send an email to the teacher as he/she will proceed in a first-come first-served validation.