TP3 - Questions

• In your point of view, what was complicated in the TP#2? What where your pain points? What could you do when expanding this TP to avoid these further?

In TP2, I had difficulties with the connection of the API and making the links between my different files. Then, I had some problems when using Newton. Json (the serialization).

In this TP, I took back all the basics with a clear mind and redo correctly the TP2 to make it work properly. This is what was done.

My research in documentations and understanding of the principles is improved.

• What are the S.O.L.I.D. principles? What are the "KISS rule" and the "boy scout rule"? What's clean code, clean architecture?

S.O.L.I.D:

This brings together five design principles intended to produce more understandable, flexible, and maintainable software architectures. (Single responsibility, Open/closed, Liskov substitution, Interface segregation, Dependency inversion)

KISS rules:

This means: Keep it stupid simple. It is a design that is about simplicity in design and complexity avoidance.

Boy-scout rules:

This is the principle of always leaving the code cleaner after our passage.

Clean code:

It is a code that has been thought out so that it can be read, understood and operated. It must be flexible, maintainable and durable.

Clean architecture:

It is defined by different independent layers. We start from the layer that concerns the details to the most critical layer.

- How would you expand this code? What can you add to the software you build to make it
 more useful, reliable, relevant to the user? Find 5 ways to improve your previous TP, even if
 that's not doable.
- 1. Take multiple variables from the API and create calculations like temperature averages / create global warming indicators.
- 2. Create weather alerts based on wind and flooding, like orange or red zone in case of storm.
- 3. Search bar to search by location.
- 4. A map of the world with the real time weather and in the days to come.
- 5. Display of seasons and seasons and to be able to compare the temperature level and period with the previous years.