Practice #1: Data collection (1/2): Files processing

Example:

The goal is to predict the stock price using past stock prices and other information available online.

In this practice, you will retrieve stock market prices from 3 companies and make them usable by your python script.

The practice can be done with any interpreter (VSCode, Jupyter, Spyder, Pycharm, …).

Steps:

1. **Selection of one company:**

- Open the online excel file: https://docs.google.com/spreadsheets/d/1jkM8IFzgzkua1zTXWlfzbn2fc5qHtLZBxiyNFNFl3pk/edit?usp=sharing
- Choose 1 company available ("Free" = "Yes")
- Book them by writing "No" in the "free" column
- Write your name and surname in the following column

2. **Download the data:**

- Go to the yahoo finance website (https://finance.yahoo.com/)
- Find your previously chosen company with the search bar
- Go to the historical tab of your company
- Change the time period to "max"
- Download the history for the previously chosen company (CSV extension file)

3. **Open and test you python interpreter:**

- Open a Python interpreter (VSCode, Pycharm, Jupyter, …) (Please do not use a website as programmiz)
- Try to print something to be sure that your interpreter and Python is working

4. **Open your CSV file with Python:**

- Import the csv package
- Open the csv file and print every row in the console

5. **Get the CSV data into Python variable**

- Create one empty list per column in the CSV file

- Open the csv file
- Put the values from the first column into the first list, the second columns into the second list, …
- Print the 10 first items of each list

6. **Modify the list**
- Transform the previous lists into float and datetime object