## **Exercise: simple data transformation with pandas**

Note: you can find the complete set of demos, exercises and solutions, as well as recommendations for the runtime environment here:.

https://github.com/wodecki/ASI 2022

In this exercise, you will create and run a simple docker container that allows you to load data from an existing csv file, multiply it by 2, and write such a transformed data frame to a new file.

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Python script app1.py:
$\hfill \Box$ Loads the pandas package in the correct version and prints this version on the screen.
☐ Loads the contents of the /input/input.csv file into the data frame, and prints it on the screen
☐ Multiplies this content x2, assigns it to a new data frame, and prints the result on the screen
Saves the new frame to the text file /output/output.csv.
A Dockerfile image specifier file that copies the complete set of necessary data, but does not run the appl.py script (so that the container does not stop when it starts)
A docker image named app1.
README.md file with user instructions showing,
how to build the image
how to run the container so that the user can view and modify the files inside the container (the appl.py component and the inputinput.csv artifact).
☐ Tip: in order to enable file editing, the editor of your choice must be installed in the container after it is launched. For example, for the nano editor, run:
\$ apt-get update.
\$ apt-get install nano.
how to run the appl.py script available inside the running container?