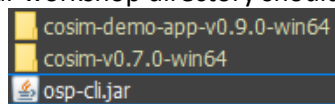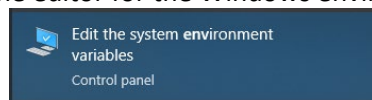- **Prerequisites - <u>Please prepare in advance, BEFORE the workshop</u>**
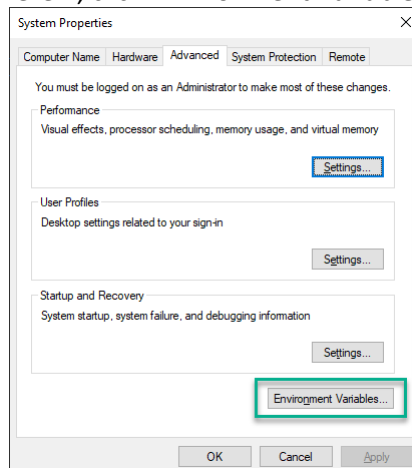 - Bring your own Windows PC (Notebook)
  - The exercises will be done on Windows, as some of the FMUs only support Windows.
  - You will need to have Java installed on your machine. Java for Windows can be downloaded from the Java website: https://www.java.com/en/download/windows_manual.jsp
    (latest version at the point of writing: Version 8 Update 351)
  - Create an empty directory on your local disk to use as your workshop directory, i.e.
    C:\Dev\osp\workshop
  - Download the following OSP software to your local workshop directory:
    - OSP Validator v. 0.13.0 (download `osp-cli.jar`; see documentation)
      - Download osp-cli.jar into your workshop directory
      - To run the validator, type:
        `java -jar ./osp-cli.jar`
    - OSP Demo Application v. 0.9.0 (see documentation)
      - Download and extract the 'cosim-demo-app-v0.9.0-win64' folder into your workshop directory
      - To start the demo application, execute the file 'run-windows.cmd'
    - cosim v. 0.7.0 (see documentation)
      - Download and extract the 'cosim-v0.7.0-win64' folder into your workshop directory
      - The 'cosim-v0.7.0-win64' folder contains a subfolder 'bin'. This folder contains the cosim commandline executable (cosim.exe).
    - Your workshop directory should now look as follows:
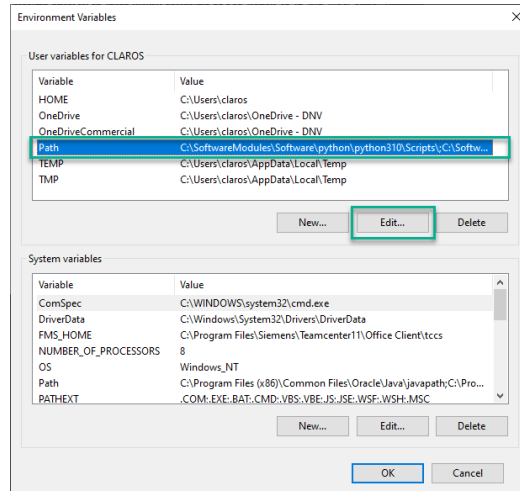

  - Add the cosim bin folder to your User environment
    - As you will need to call cosim.exe in multiple exercises and from different folders, it is a good idea to add the cosim bin folder to your Windows PATH environment variable.
    - To do so, open the Windows search bar and type i.e. 'env'. This should offer you to open the editor for the Windows environment variables:
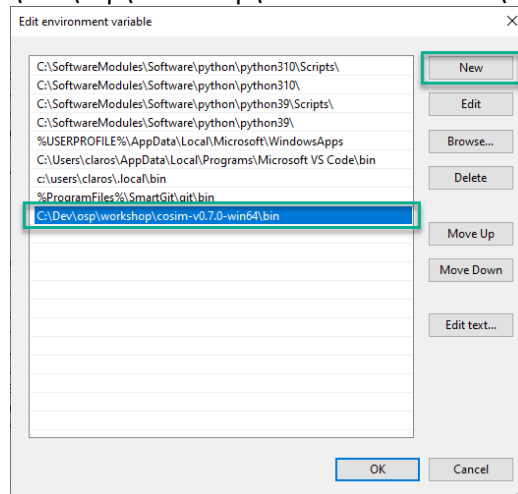

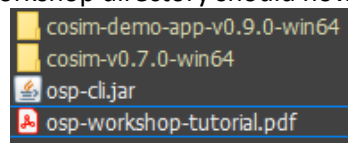   - Therein, click 'Environment Variables'

    - Select the 'Path' or 'PATH' user variable and click 'Edit'

- Create a new entry and enter the path to the cosim subfolder 'bin'. I.e.:
  C:\Dev\osp\workshop\cosim-v0.7.0-win64\bin

- You might need to restart your PC for the changes to take effect.
  - To use the OSP Validator and cosim, you should be comfortable with using the command line.
  - In the tutorial, you will be editing XML and JSON files. While you can certainly edit XML and JSON files in Windows' Notepad, this is not necessarily a rewarding experience. There are plenty of third-party text- and code-editors available with varying levels of support for XML and JSON files. Consider to install one you feel comfortable with; it will improve your workshop experience ;-)
  - Copy the workshop tutorial
    - Copy the attached tutorial 'osp-workshop-tutorial.pdf' into your local workshop directory
    - Your workshop directory should now look as follows:

- **Read the workshop tutorial**
  - Have a first-time read of the pdf to get comfortable and have a preparatory understanding of what we will do in the workshop. It will take you no longer than 20 minutes yet will largely improve your learning experience and fun in the workshop.

- **You are prepared !**