Programs Installation

La notte stellata – V. van Gogh- 1889

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Programs to install

- **ANACONDA**

  https://geoframe.blogspot.com/2020/01/the-winter-school-on-geoframe-system-is.html

  Link for download: https://www.anaconda.com/distribution/

  Download the program and follow the **installation instruction**.

- **OMS3 console 3.6.28**

  https://geoframe.blogspot.com/2020/01/the-winter-school-on-geoframe-system-is.html

  Link for download https://alm.engr.colostate.edu/cb/wiki/16961

  Download the folder and **unzip it**. The OMS console is **ready**.

Materials download…

- **geoframe_rossano.yaml**

Anaconda Environment for GEOframe models

Download: https://github.com/geoframecomponents/python4GEOframe

- **ex01 «Hello World»**

OMS example project to test the console → Download: https://osf.io/5e9jp/

- **Notebook Test**

Notebook to test Anaconda Environment → Download: https://osf.io/fzy5g/

<u>AFTER</u> downloading and installing everything…

Let's START…

ANACONDA

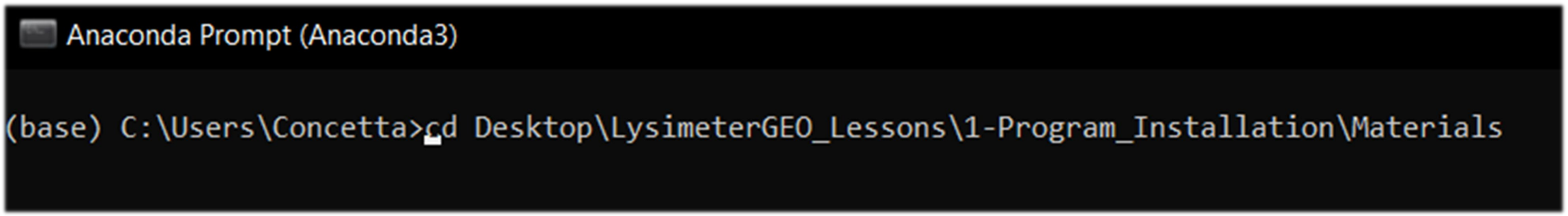
1. Open **Anaconda Prompt**

Anaconda Prompt (Anaconda3)

App

ANACONDA

1. Set the folder path in which there is the **geoframe_rossano.yaml** file;
2. Create the environment: ***conda env create -f geoframe_rossano.yaml;***
3. Activate the environment: ***conda activate geoframe_rossano;***
4. Copy the folder path of JAVA_HOME.



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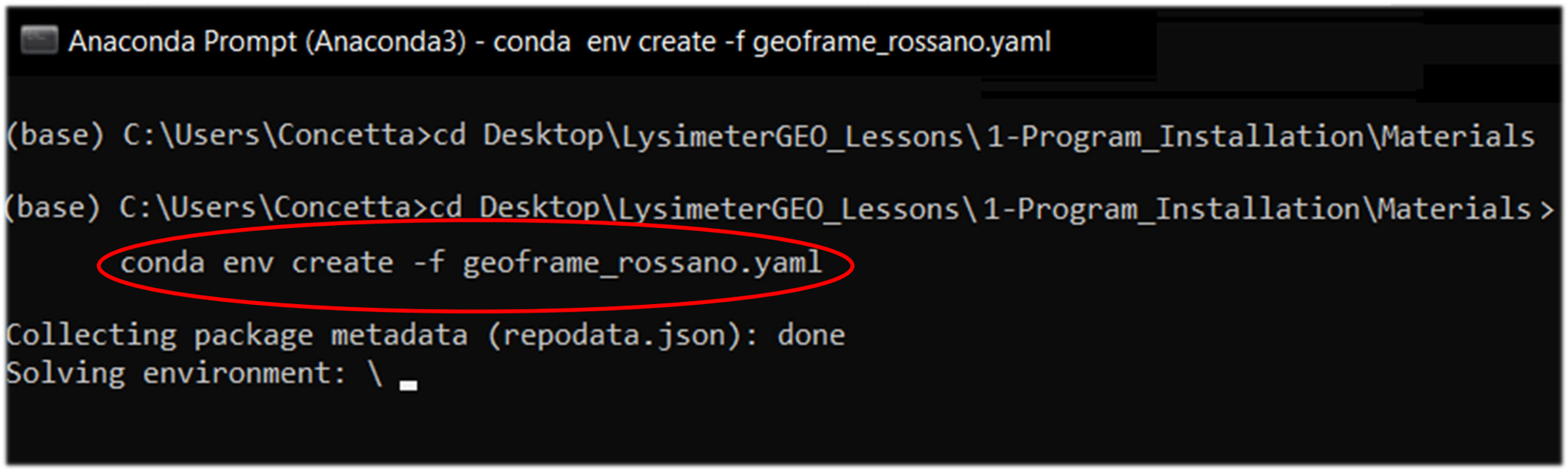

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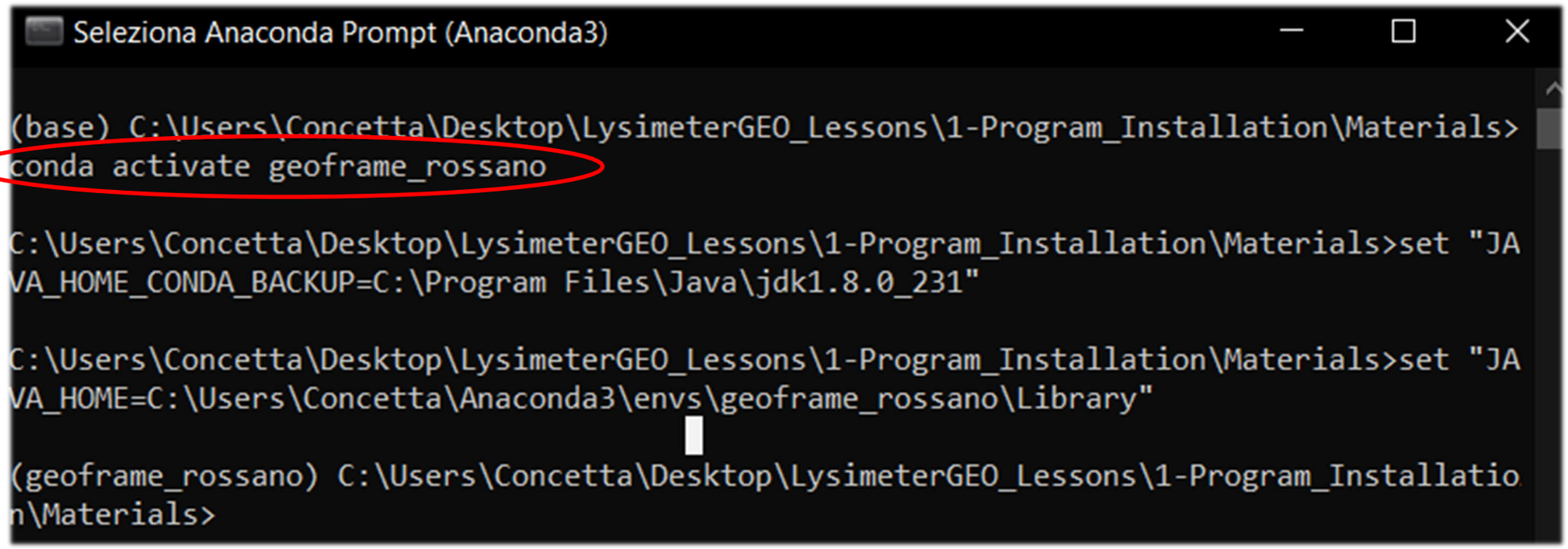

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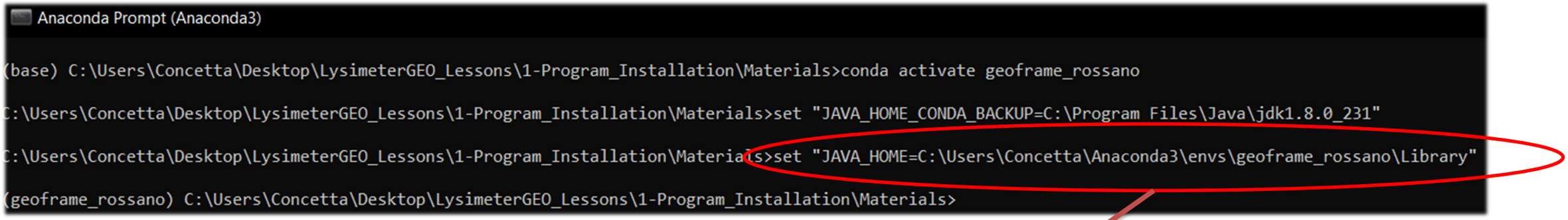
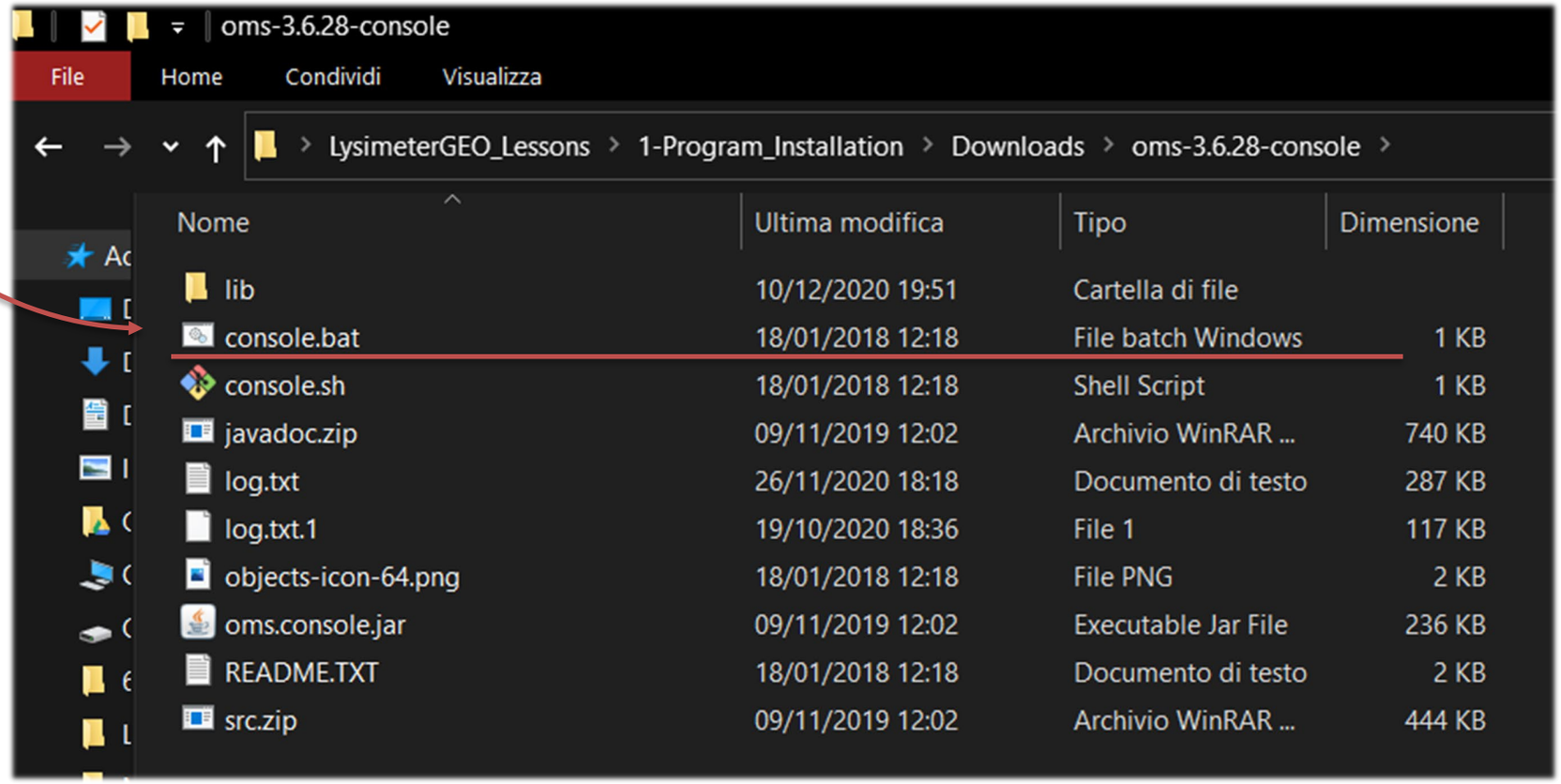


OMS3 console 3.6.28

- Open OMS console



ATTENTION

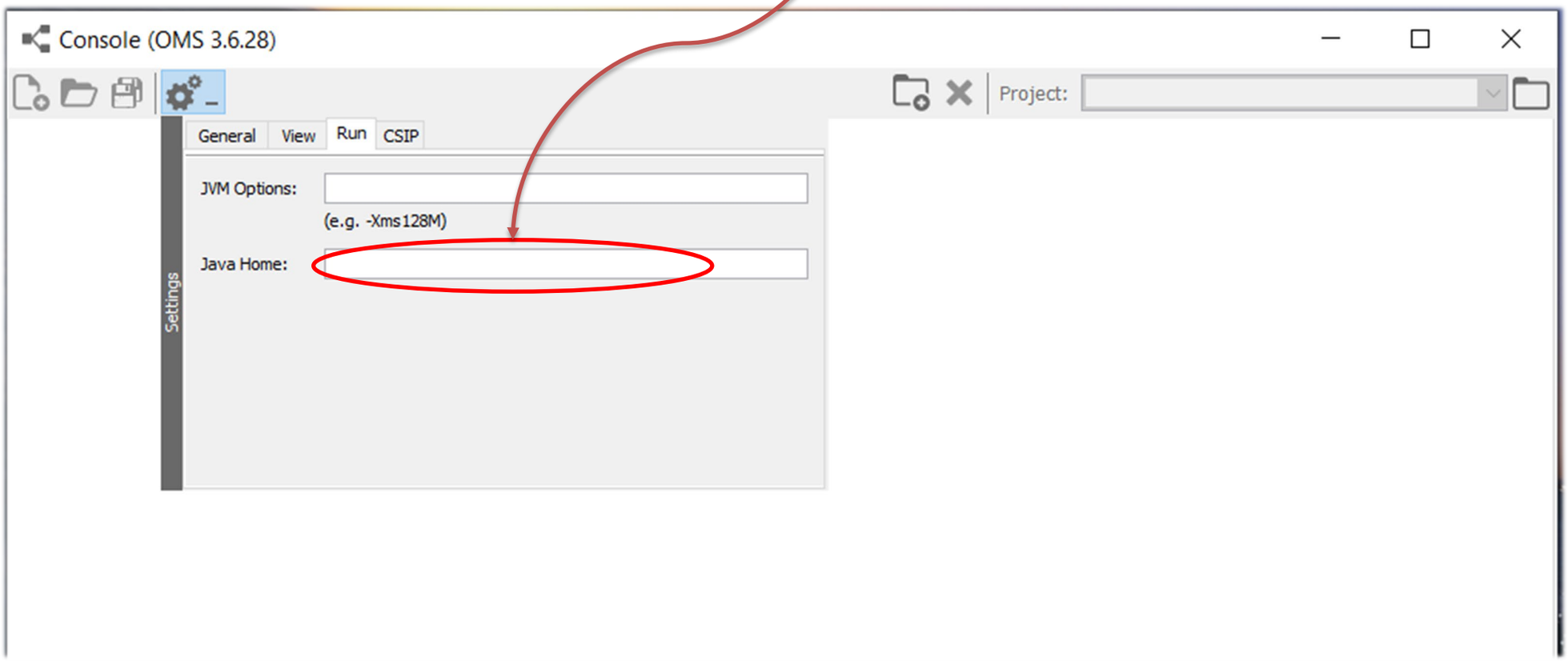
Windows users: Open file **console.bat**

Linux/macOS users: Open file **console.sh**

OMS3 console 3.6.28

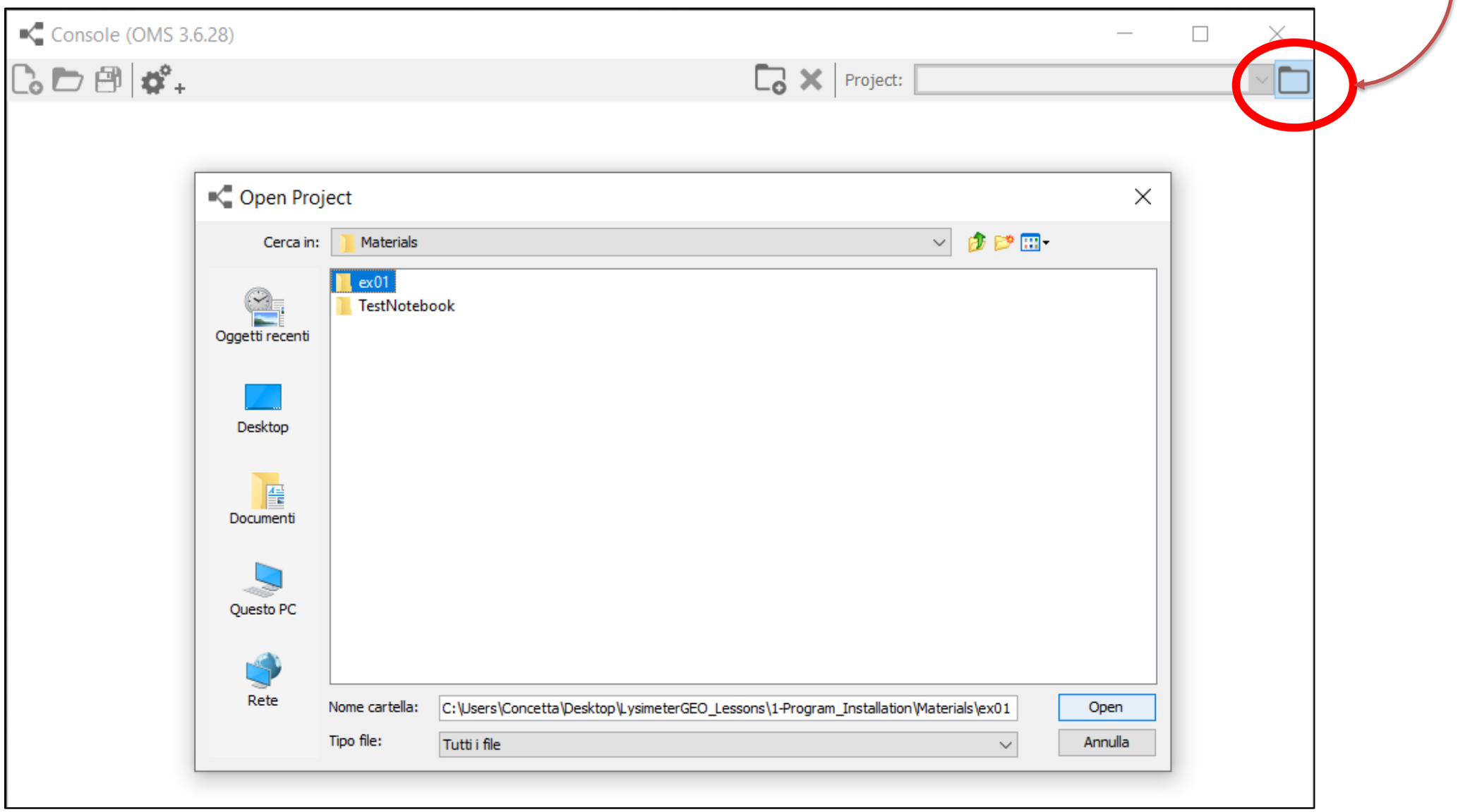
➢ Paste the path of JAVA_HOME copied before inside OMS console

```
>set "JAVA_HOME=C:\Users\Concetta\Anaconda3\envs\geoframe_rossano\Library"
```



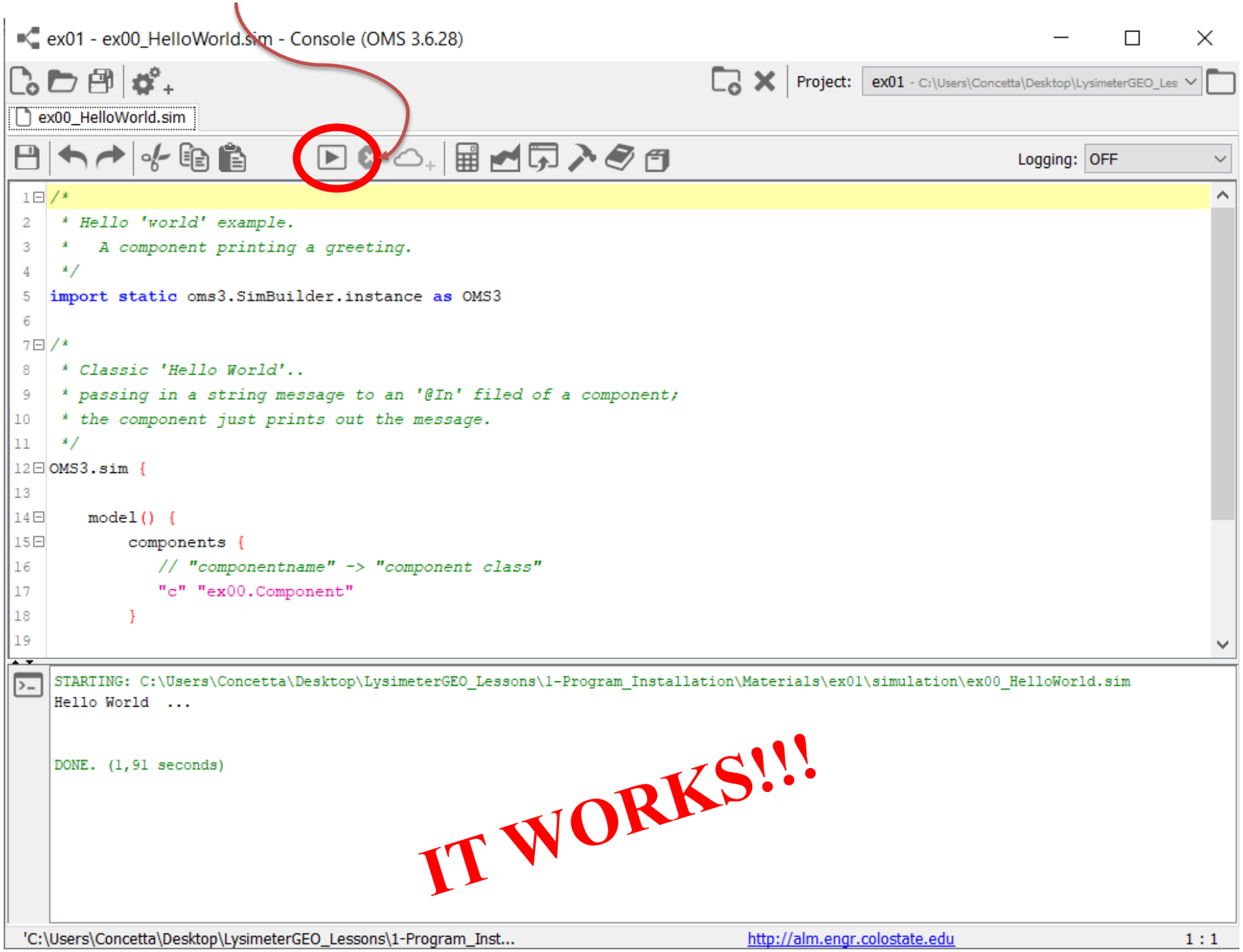
OMS3 console 3.6.28

- To check if OMS console has been installed correctly, load the project **ex01**



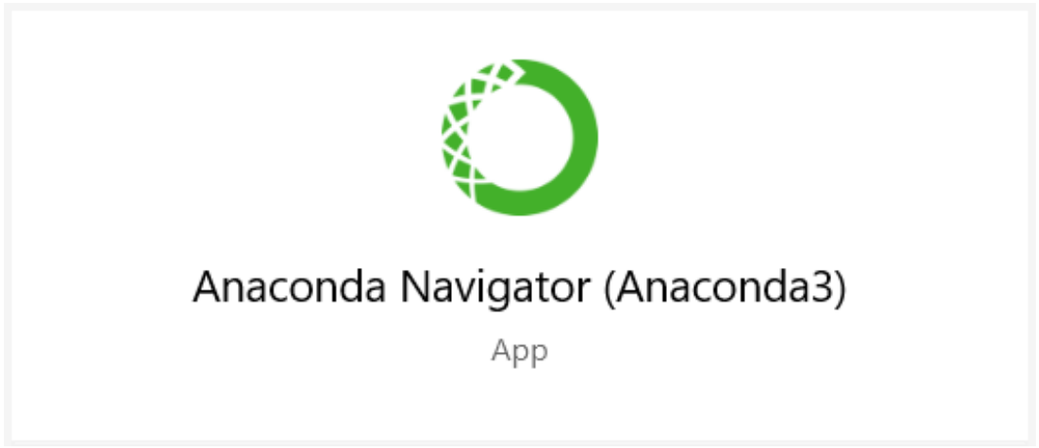
OMS3 console 3.6.28

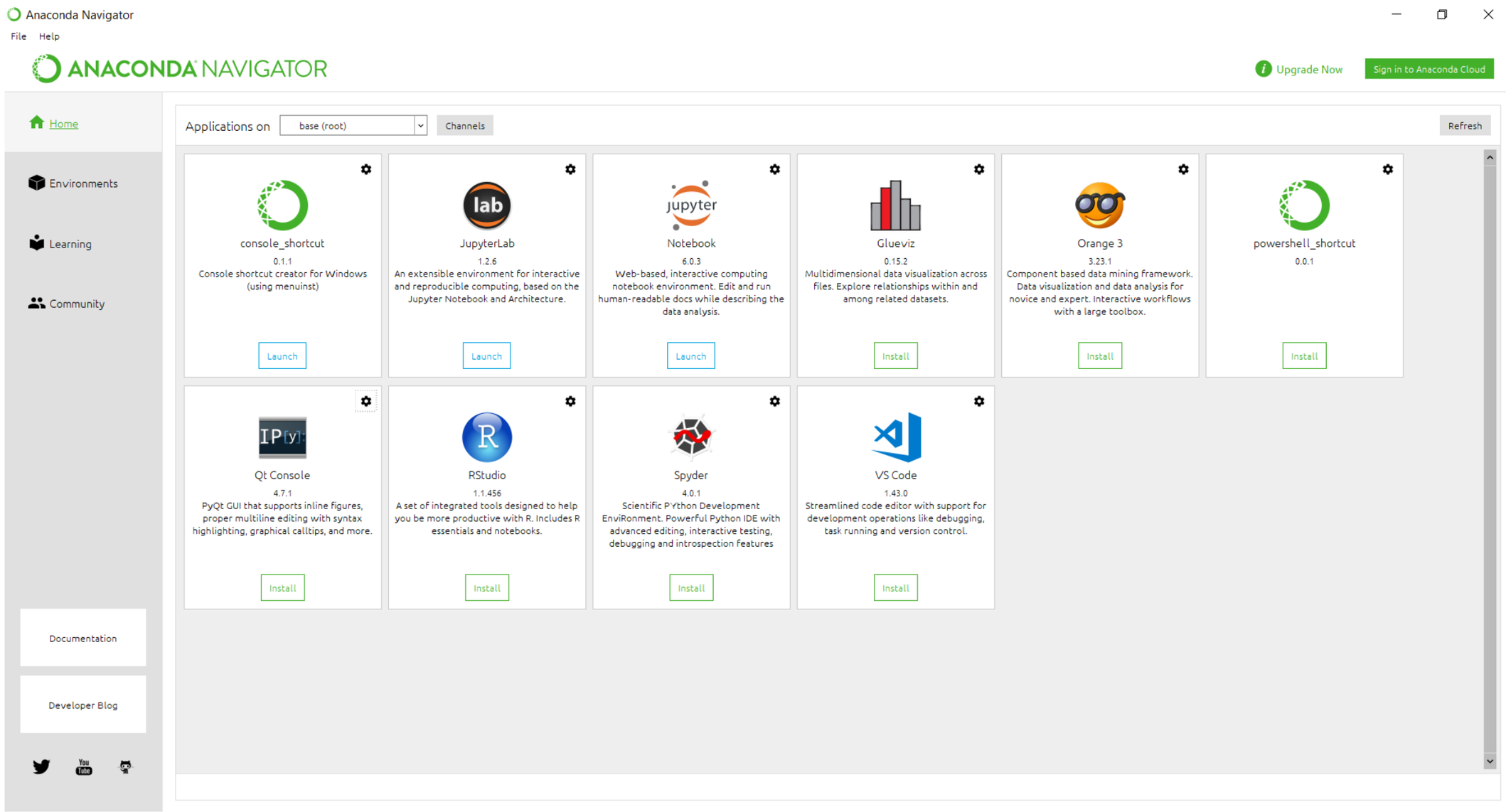
➢ Run the project **ex01**



ANACONDA

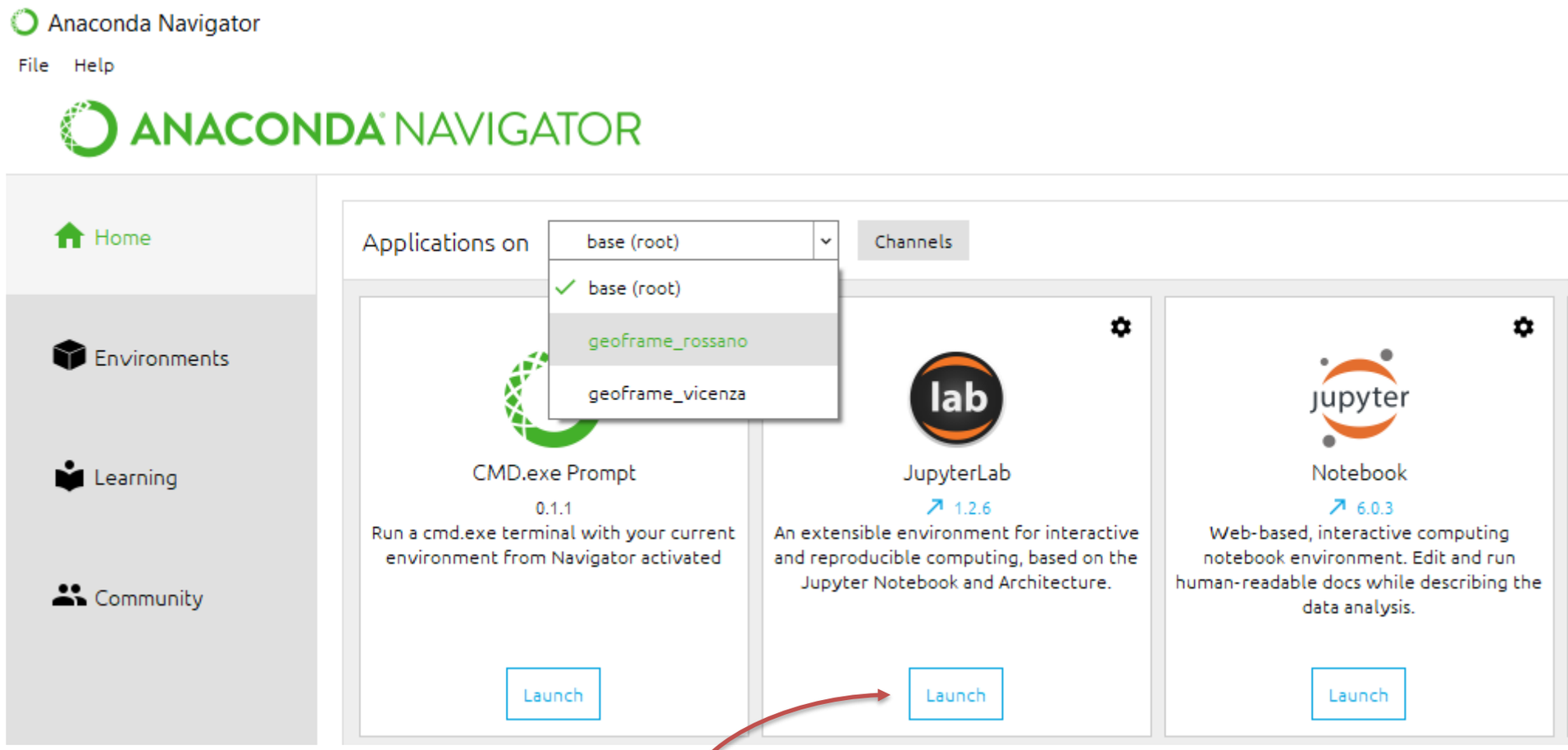
- Open **ANACONDA NAVIGATOR**





ANACONDA

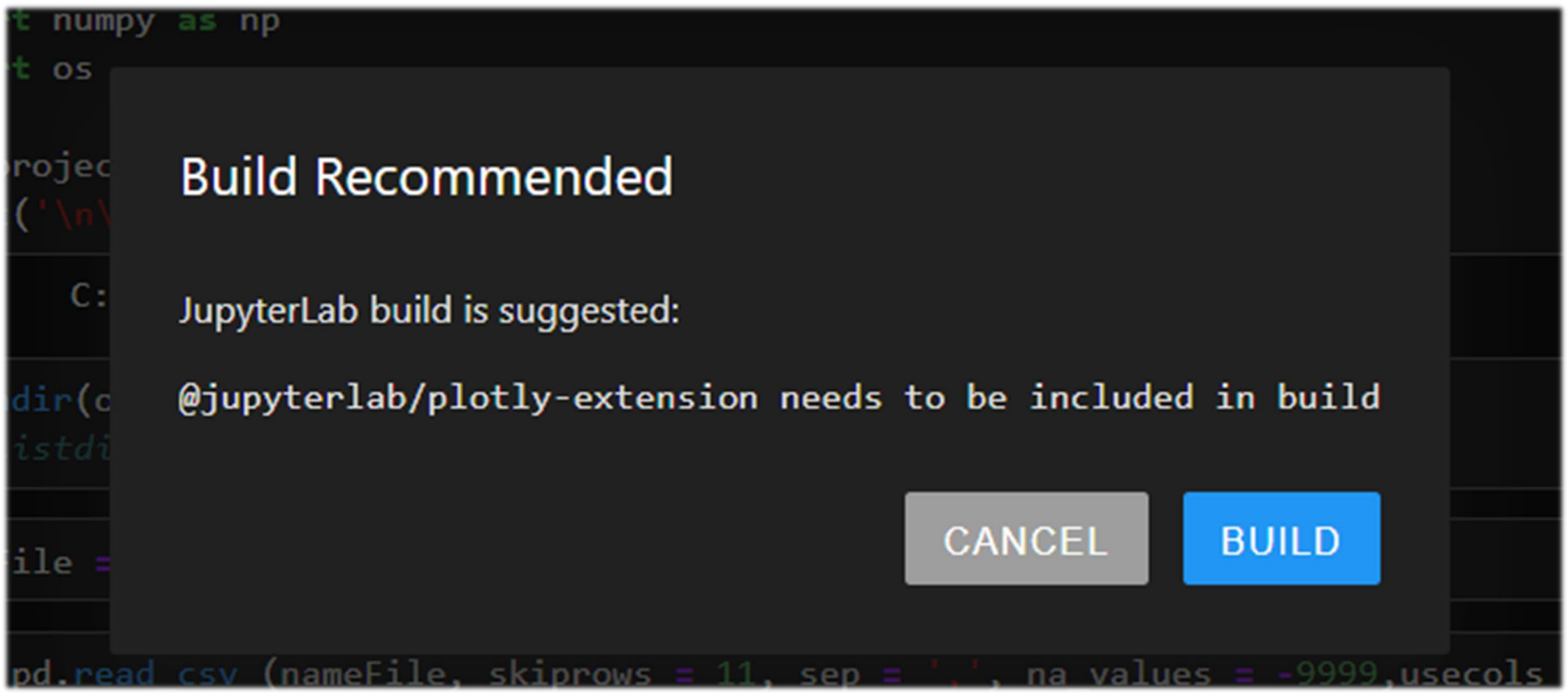
1. Change the environment in **geoframe_rossano**



2. Launch **JupyterLab**

ANACONDA

Once JupyterLab has been launched, the following screen will open

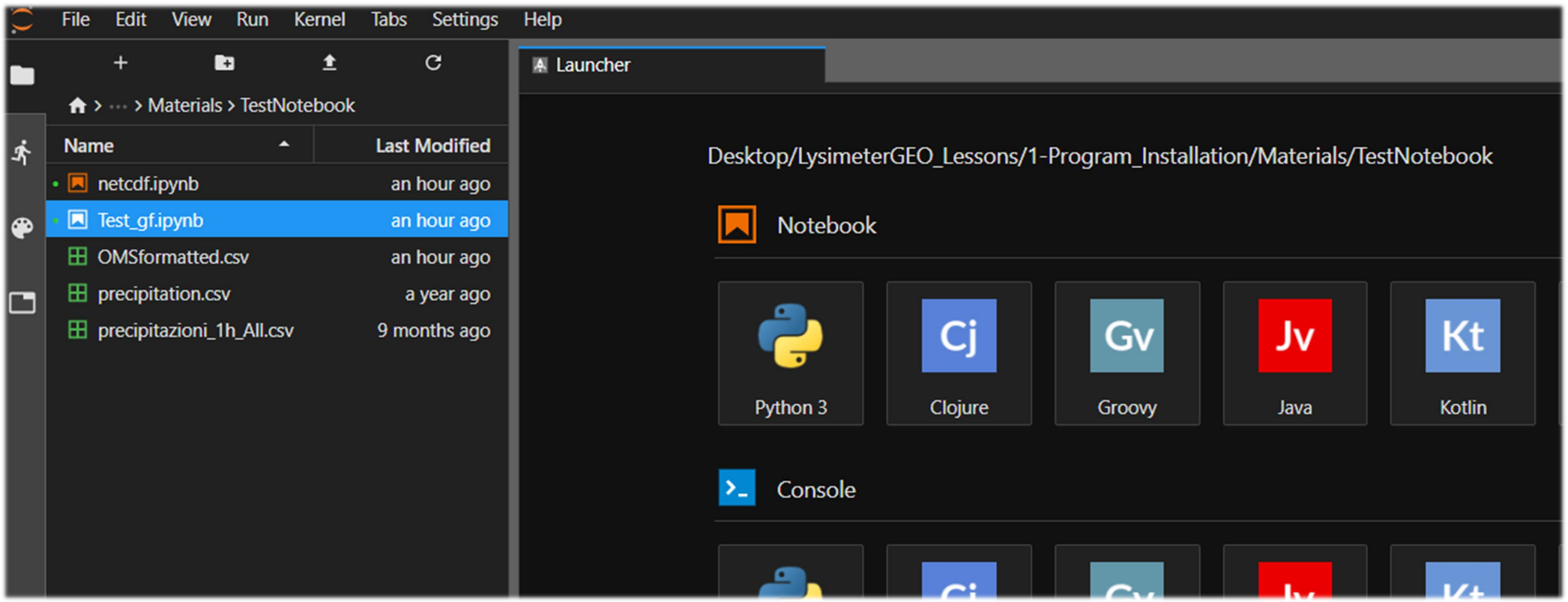


Run the **Build** and wait until another screen appears which will ask you to reload the program (**Reload**).

ANACONDA

To check if Anaconda has been installed correctly, once the reload has been carried out, launch the **Test_gf** notebook:

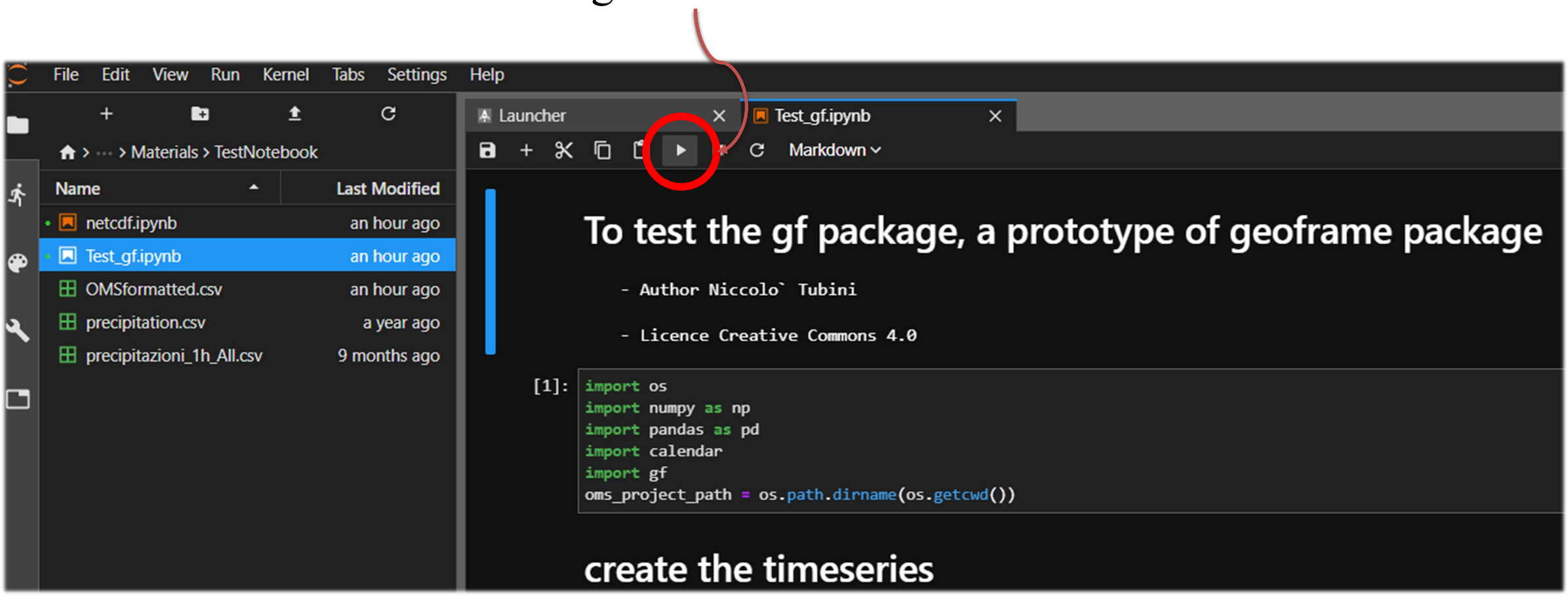
1. Go to the folder where you have the above file by using the “Dialog box” and open it;
2. Run the notebook as the figure shows.



ANACONDA

To check that Anaconda has also been installed correctly, once the reload has been carried out, launch the **Test_gf** notebook:

1. Go to the folder where you have the above file by using the “File Browser” and open it;
2. Run the notebook as the figure shows.



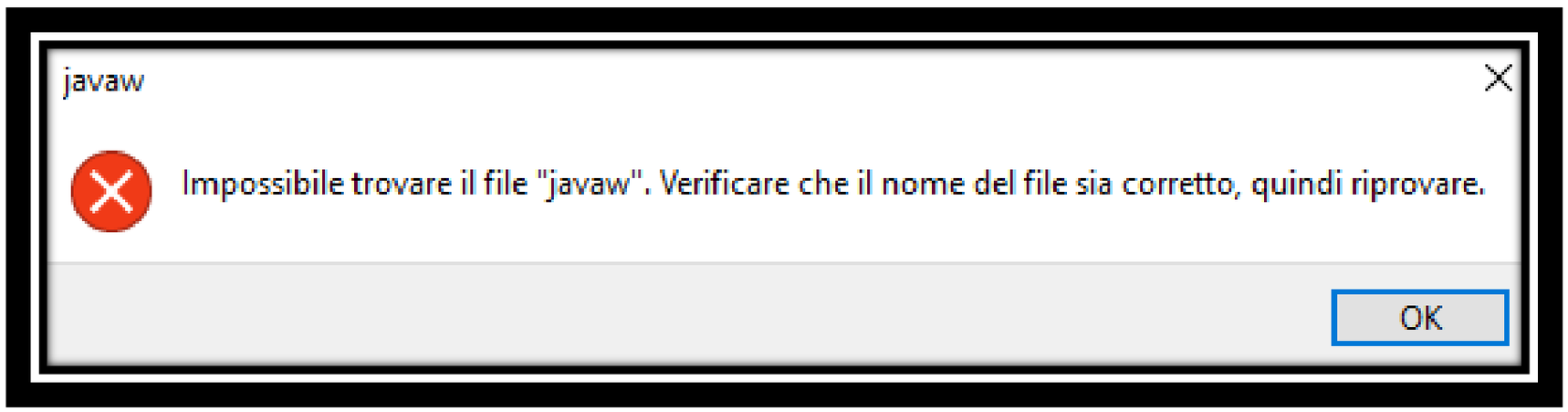
Ulrici, 2000 ?

Thank you for your attention

Programs installation - FAQ

Programs installation - FAQ

1. Cannot find the javaw file

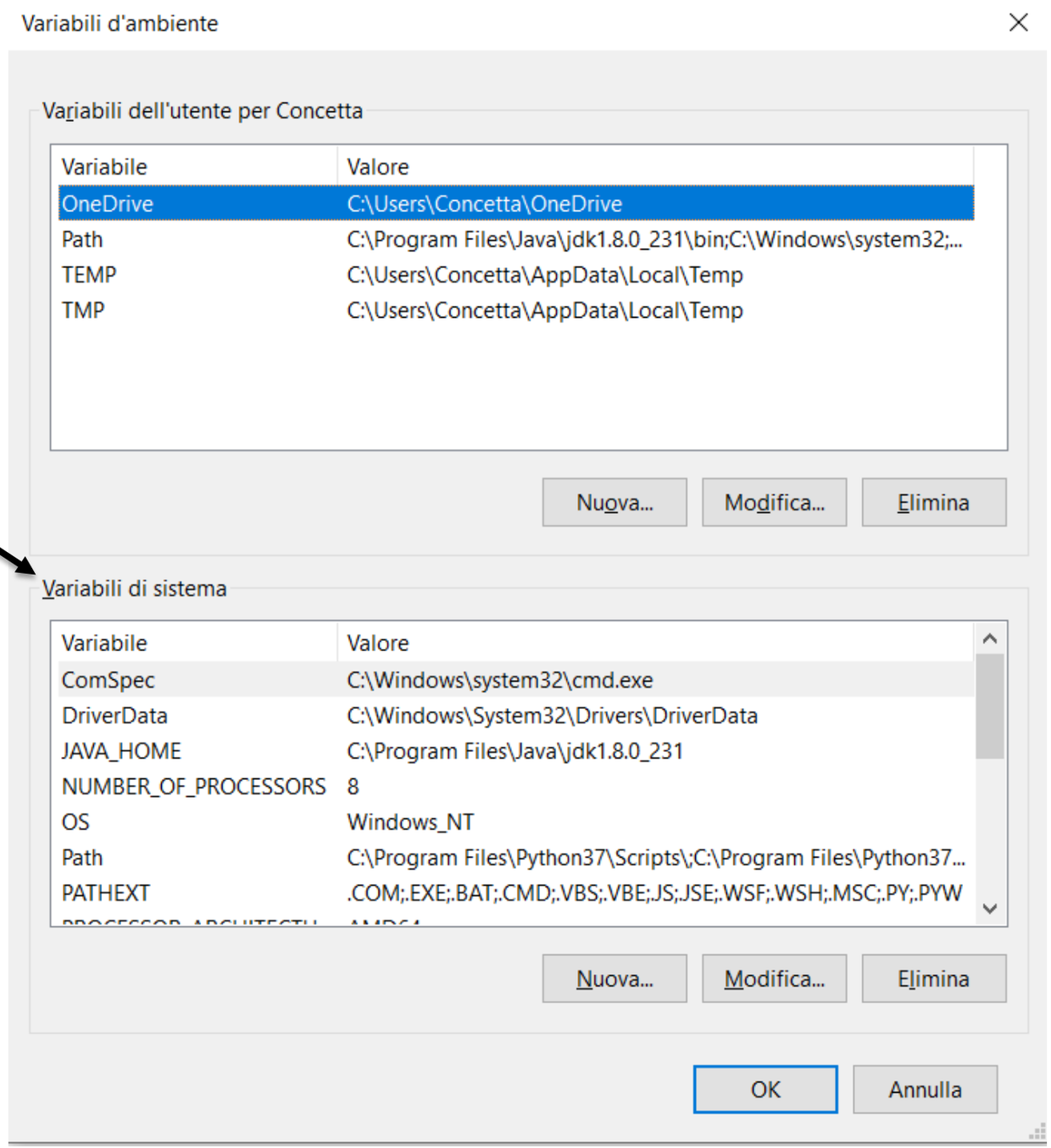


2. White screen when JupyterLab opens

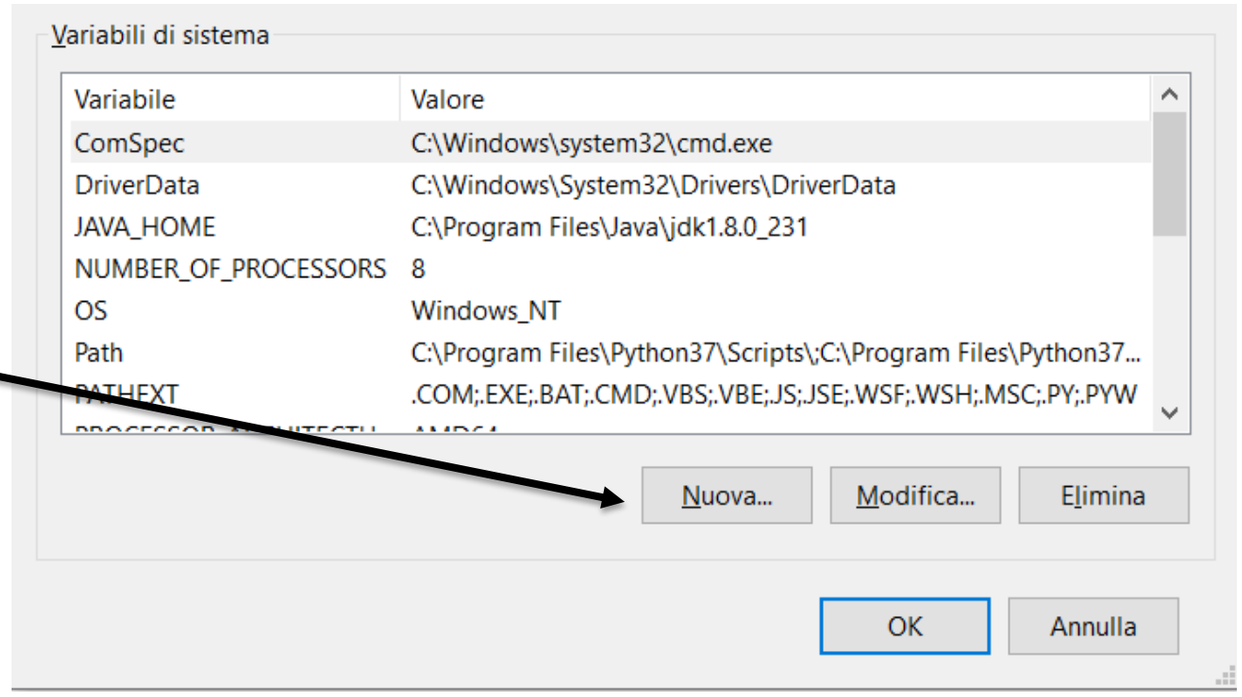
1. Cannot find the javaw file

1. Open: **Control Panel → System → Advanced system settings → Environment variables**

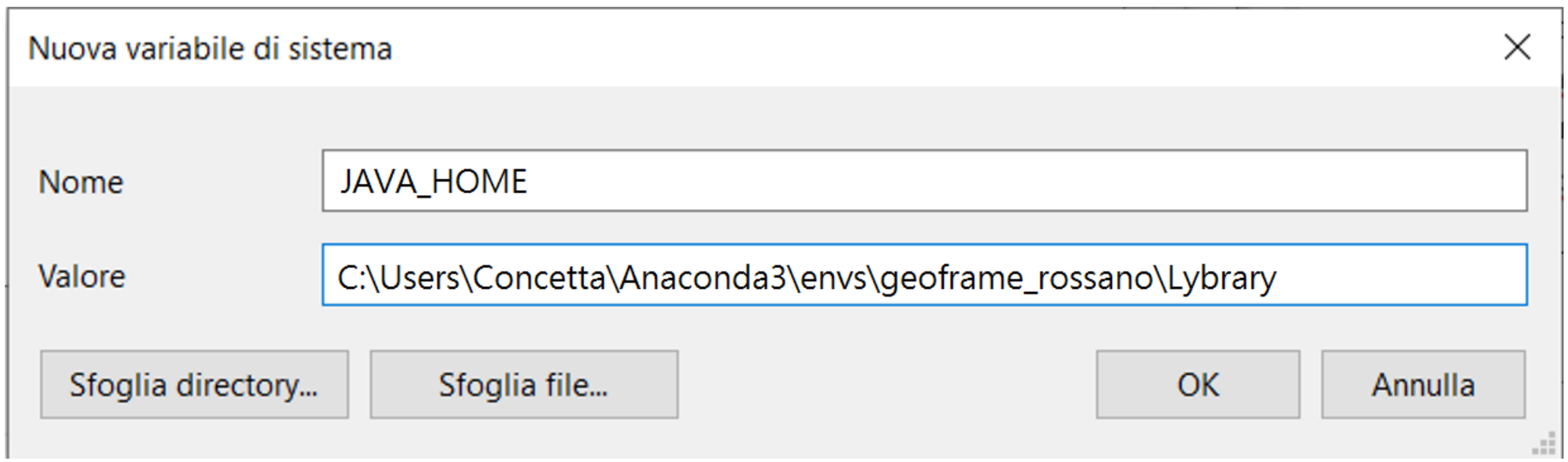
2. Go to **System variables**



3. Clic on **NEW**



4. The following screen will open where you must enter "**Name**" and "**Value**".



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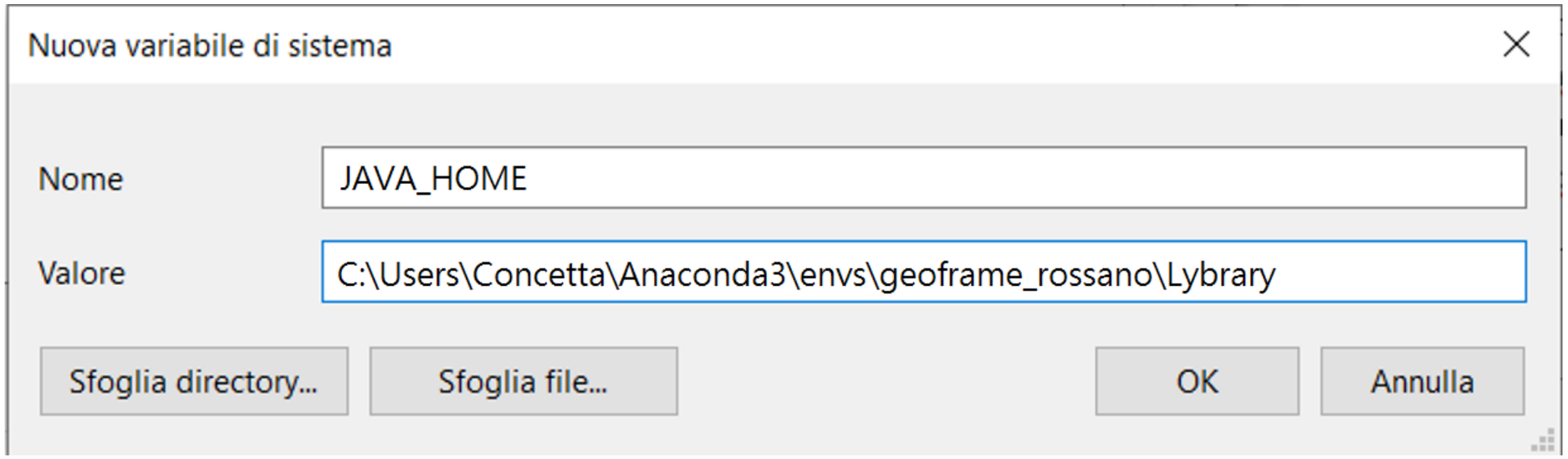
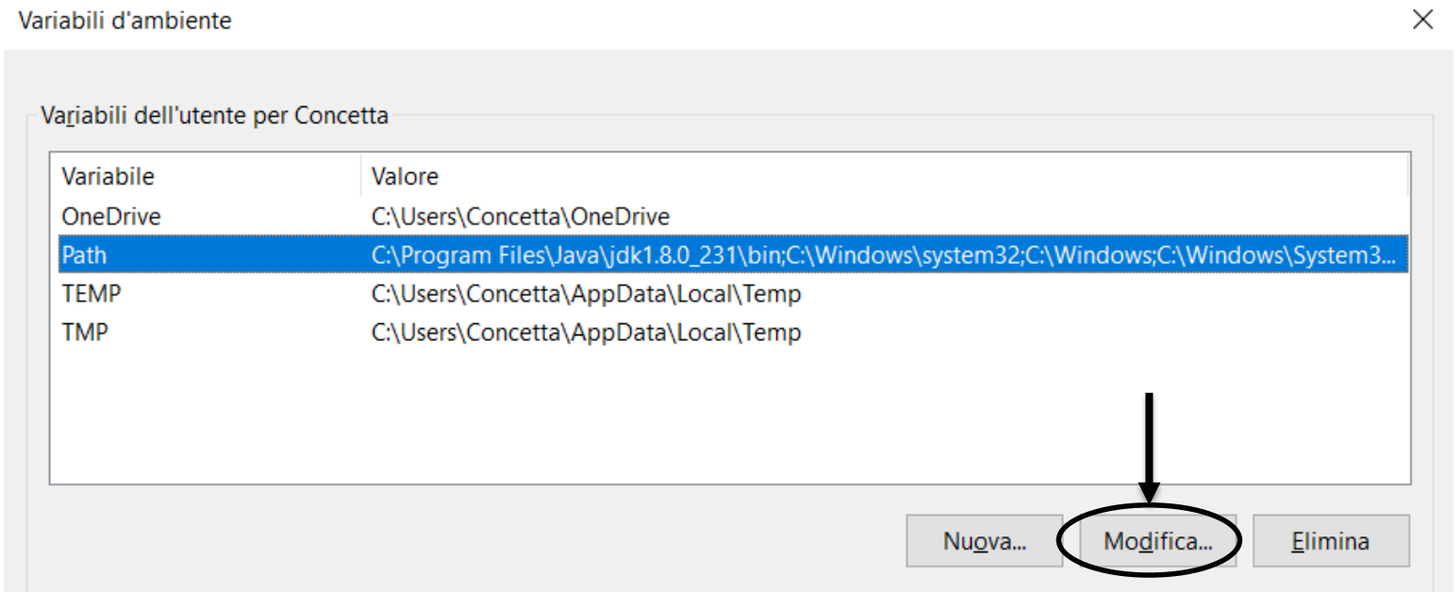
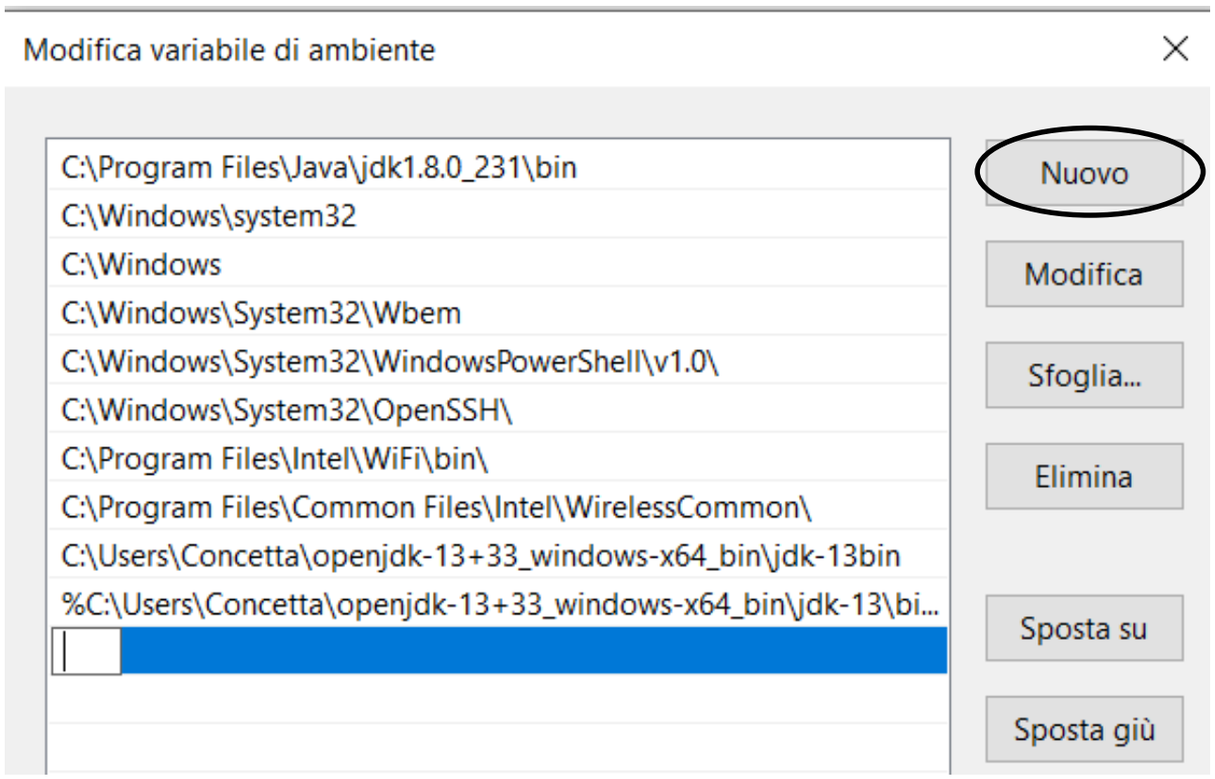


ATTENTION

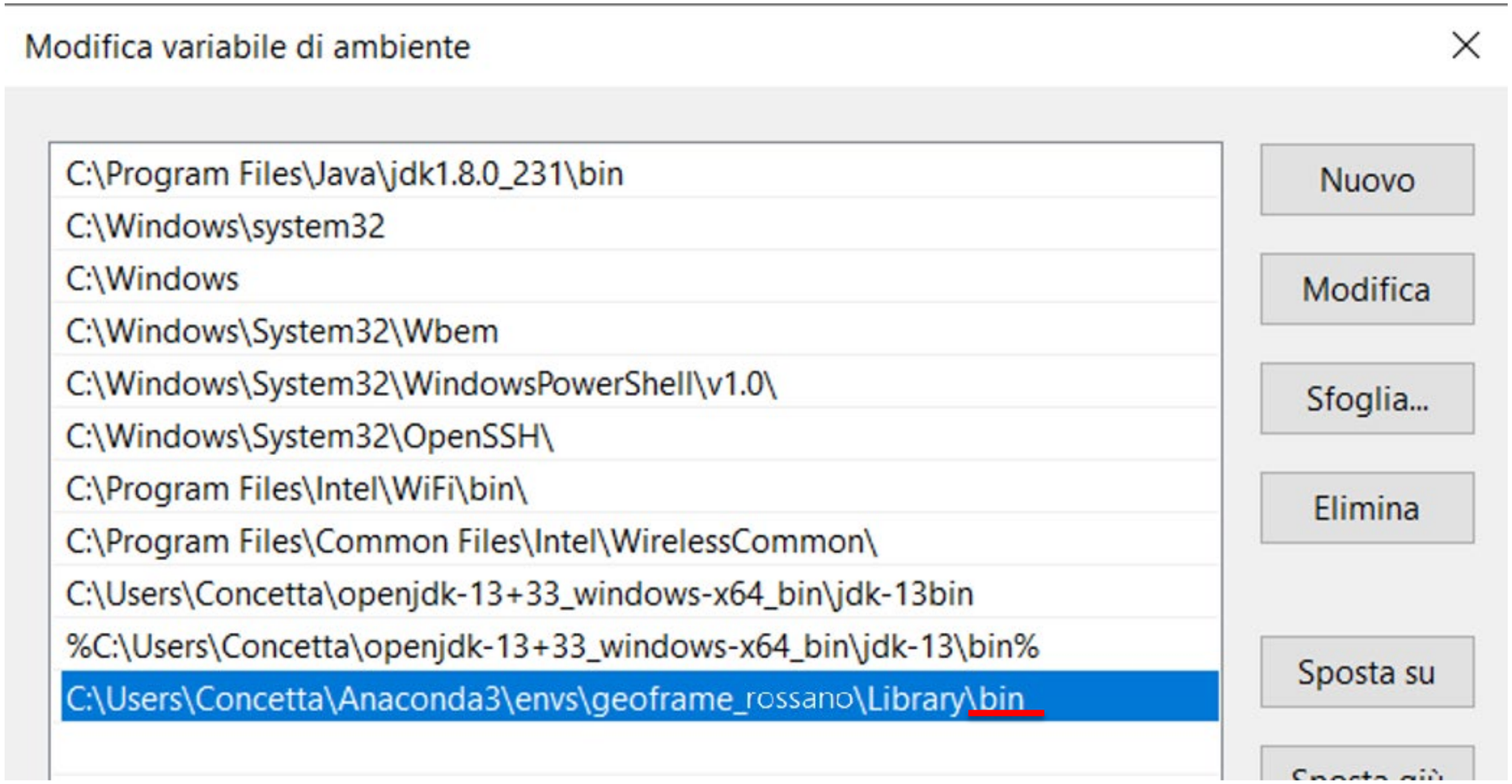
- **The name must be exactly JAVA_HOME**
- **The path is the one that must be copied from the Anaconda prompt after activating the geoframe_rossano environment**



5. Go to
User variables → Path → → Modify → New



6. Paste the previous path by adding **\bin** (AS SHOWN)



7. **Save** and open OMS console

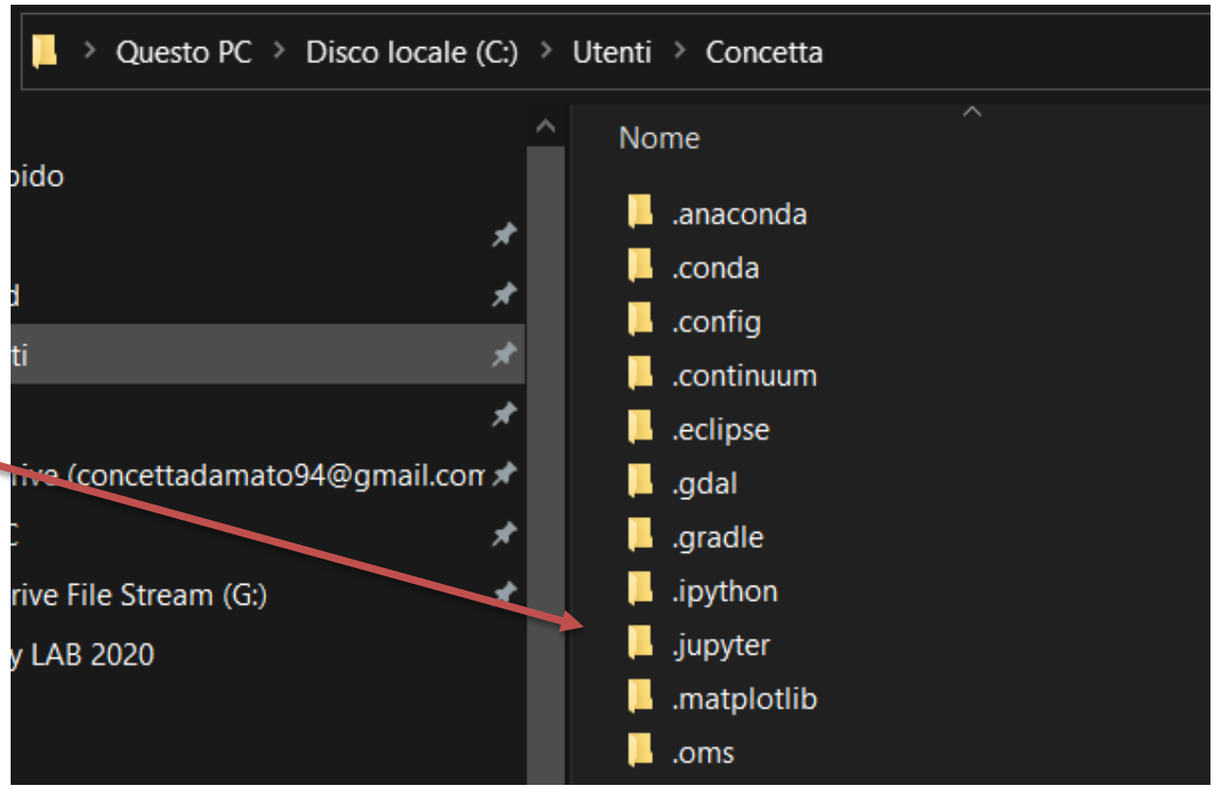
2. White screen when JupyterLab opens

1. Open ANACONDA PROMPT and write: ***Jupyter notebook --generate-config***

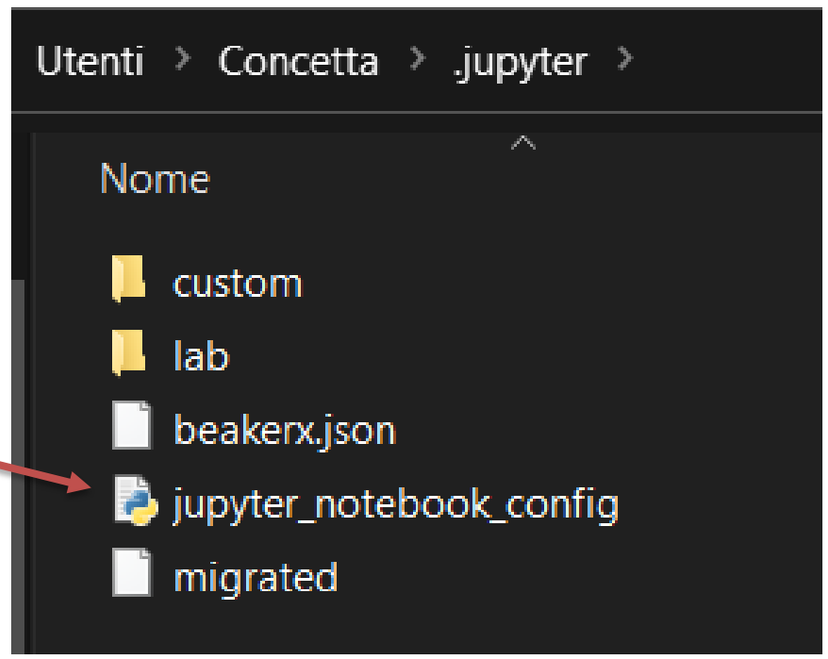
```
(base) C:\Users\Concetta>jupyter notebook --generate-config
Writing default config to: C:\Users\Concetta\.jupyter\jupyter_notebook_config.py

(base) C:\Users\Concetta>
```

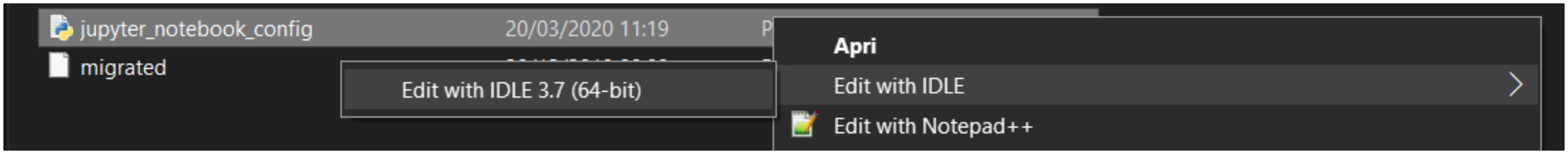
2. Go to user folder and open the folder **. jupyter**



3. Open **jupyter_notebook_config**



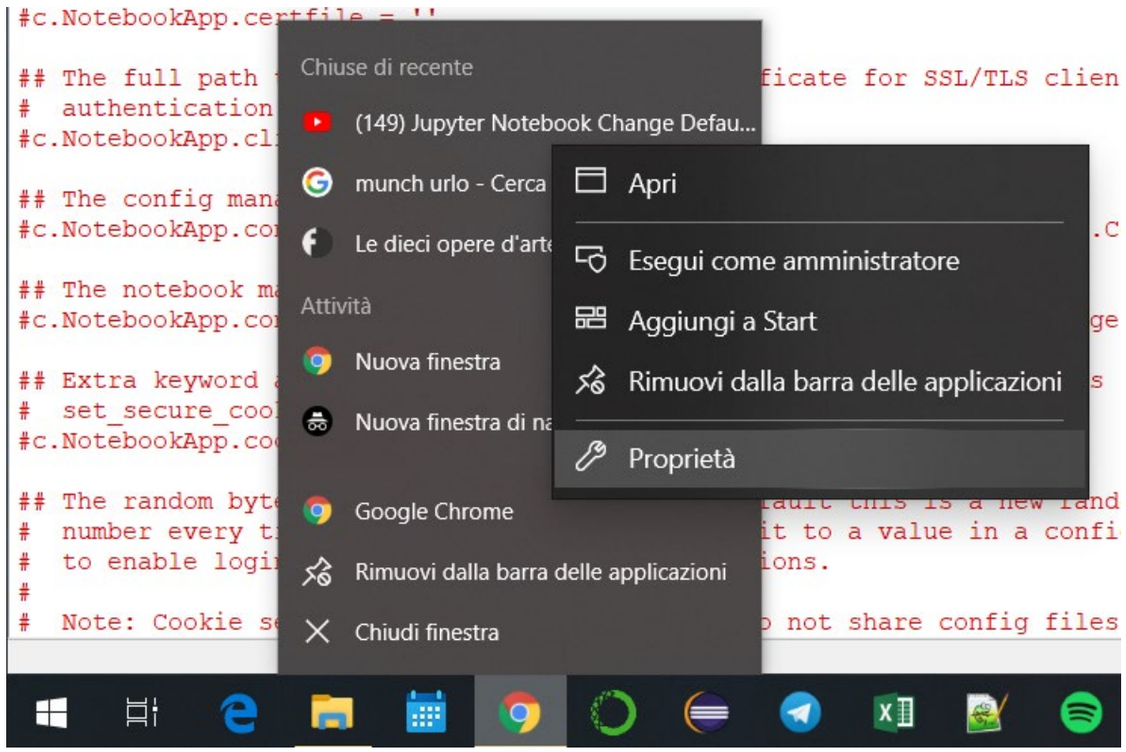
4. Open the file using **IDLE**, as shown in figure



5. Go to the highlighted lines and modify the string **c.NotebookApp.browser**

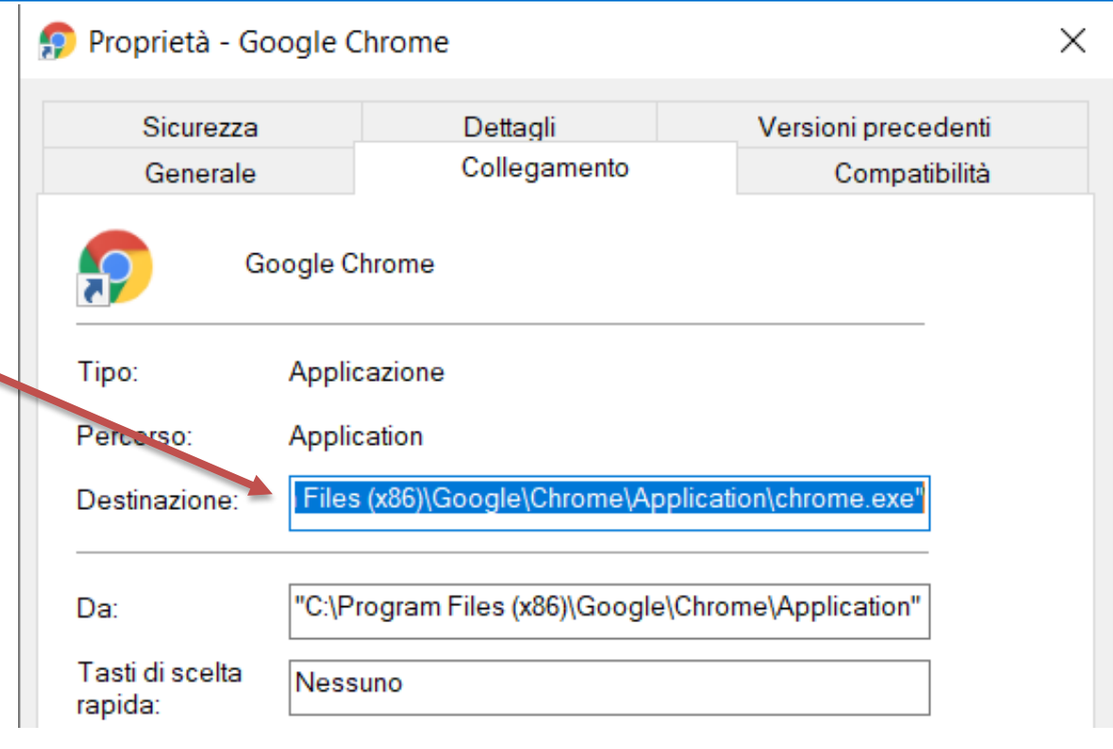
```
## Specify what command to use to invoke a web browser when opening the notebook.
#  If not specified, the default browser will be determined by the `webbrowser`
#  standard library module, which allows setting of the BROWSER environment
#  variable to override it.
#c.NotebookApp.browser = ''
```

6. Choose the **browser** with which to open the Jupyter files, for example Chrome



Copy the path where it is located

the executable of the application



Paste it in the **jupyter_notebook_config** file as shown in the figure.

ATTENTION: add "u" and "% s" as shown in the figure

```
## Specify what command to use to invoke a web browser when opening the notebook.
#  If not specified, the default browser will be determined by the `webbrowser`
#  standard library module, which allows setting of the BROWSER environment
#  variable to override it.
c.NotebookApp.browser = u'C:/Program Files (x86)/Google/Chrome/Application/chrome.exe %s'

## The full path to an SSL/TLS certificate file.
#c.NotebookApp.certfile = ''
```

SAVE and open JupyterLab.