**Installation steps (Windows)**

1. Download and install [Anaconda desktop](https://www.anaconda.com/download)

2. Download and install [Visual Studio Code](https://code.visualstudio.com/)

3. Download and install [SUMO](<https://eclipse.dev/sumo/>)

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\*\* Be sure to let SUMO set SUMO\_HOME and adapt the PATH variables, otherwise the simulation will **not** work

4. Download the project [repository](https://github.com/DAIMoNDLab/CT3505-24/archive/refs/heads/main.zip), unzip it and place the folder in a recognizable place (e.g. in your Documents folder)

5. Launch Anaconda navigator

6. Create a new anaconda environment, select python 3.12, give the environment a recognizable name (e.g. ct3505)

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7. Launch Visual Studio Code \*from within Anaconda\*

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8. in VSCode, do File -> Open Folder... and select the folder where you unzipped the project repository

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9. in VSCode, click on Assignment\_1.ipynb

10. in VSCode, Open a new terminal (... -> Terminal -> New Terminal)

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11. (only once!) In the terminal, type the following:

- pip install lxml

- pip install tud-sumo

- pip install mercury

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**Launching steps (Windows)**

1. Be sure to follow the install steps, first

2. Follow steps 7-10 from the install guide to launch VSCode and the appropriate terminal environment

3. Type 'mercury run' in the terminal window

You can now work on Assignment 1

**Additional settings for Assignment 2 (Windows only, *only once*!)**

1. In VSCode, click on the Extensions tab, navigate to the Jupyter extension

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2. Click on "Install specific version..." and select version 2025.7.0 from the list

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3. Click on "Restart extensions"

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4. Open Assignment\_2.ipynb

5. Click on Select Kernel... and find the environment you created during installation

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6. Click on "Run All"

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You can now work on Assignment 2