How to write, run and execute PDDL files

In the PAR course, we will use the following software:

- Visual studio Code with PDDL packages,
  https://marketplace.visualstudio.com/items?itemName=jan-dolejsi.pddl

- FF (Fast-Forward) Planning
  Software: http://www.ai.mit.edu/courses/16.412J/ff.html

- Graphplan Planning
  Software: http://www.ai.mit.edu/courses/16.412J/Graphplan.html

- Online PDDL Editor: http://editor.planning.domains/

Using Visual studio Code for writing and executing the PDDL files
(setup-overview)

1- **Visual studio code installation (Windows), please follow this link**
2- **Visual studio code installation (Linux), please follow this link**
3- **Visual studio code installation (MacOS), please follow this link**

- **Install the PDDL Extension, or follow the following**
 - **Open VS code**
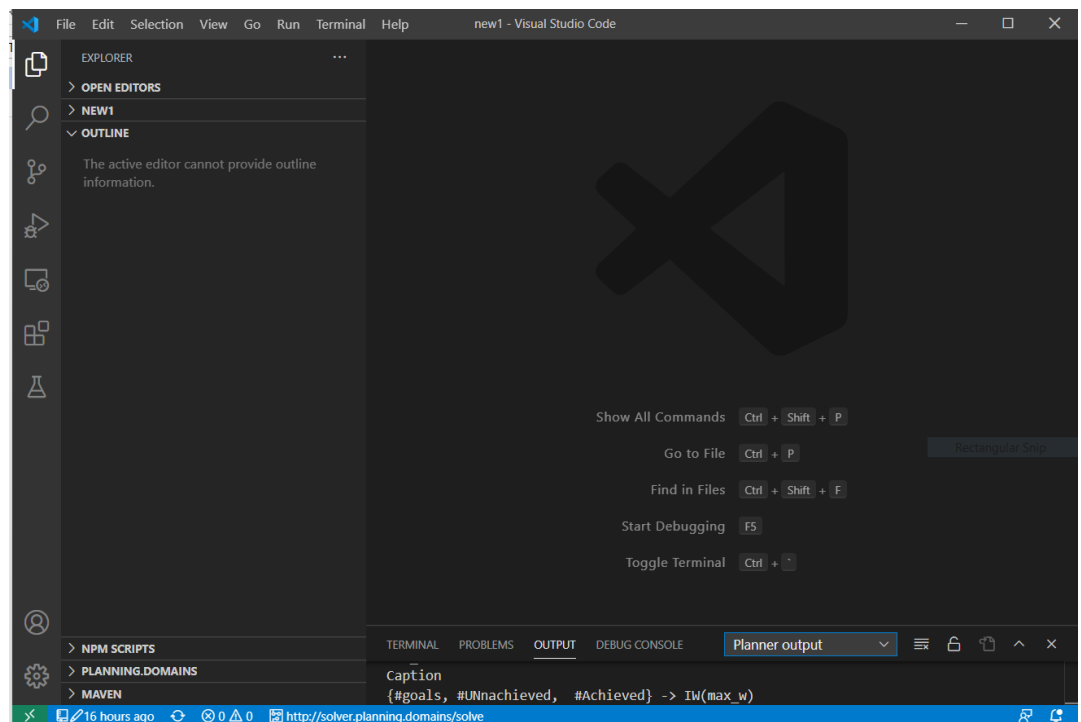
o **Open extensions on the left toolbar and write PDDL, then you can install PDDL extension easily.**
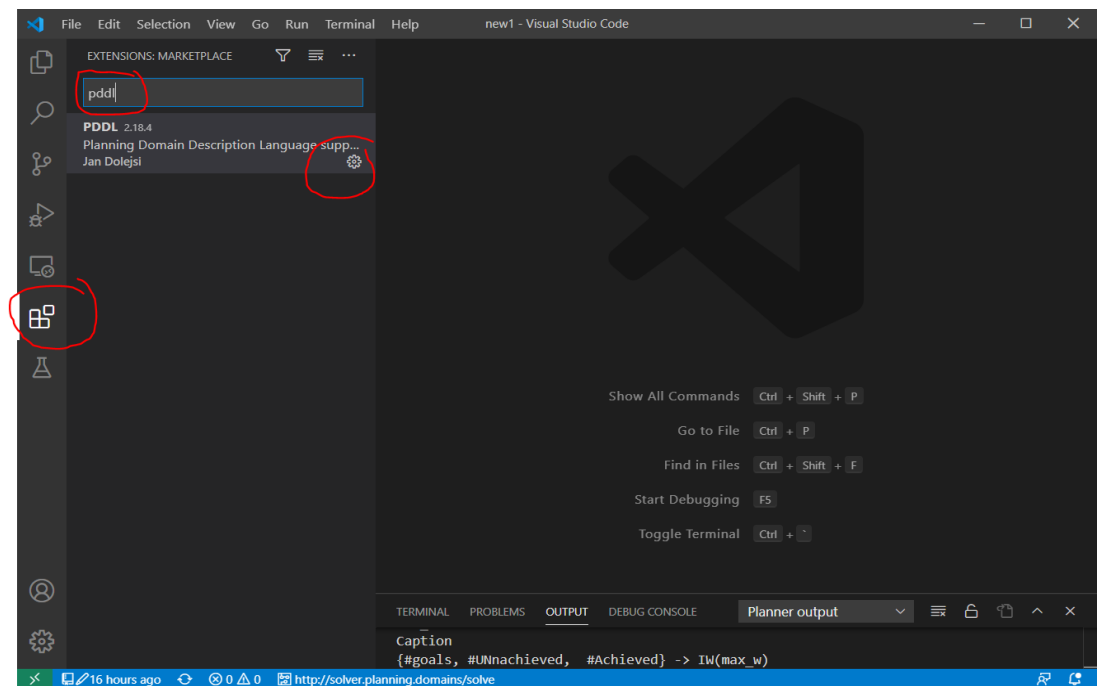

o **Open PDDL extension to enable/disable/uninstall**
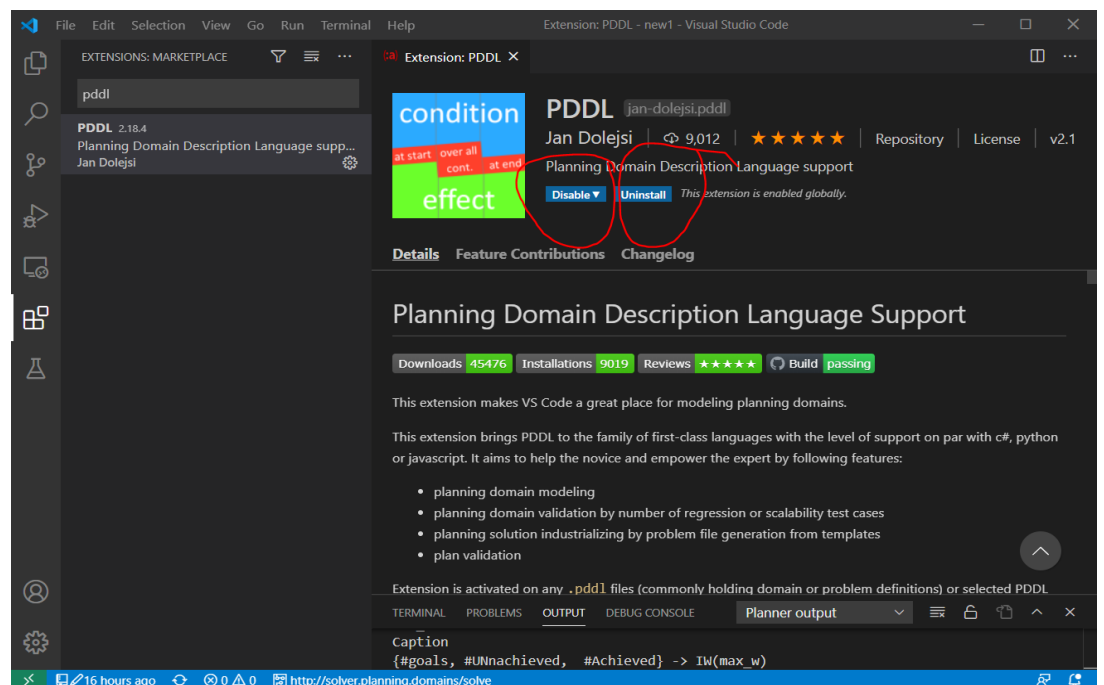
o **Open the *domain.pddl* file and type domain. The auto-completion suggests to insert the entire structure of the domain file. Use the Tab and Enter keys to skip through the placeholders and make your selections.**
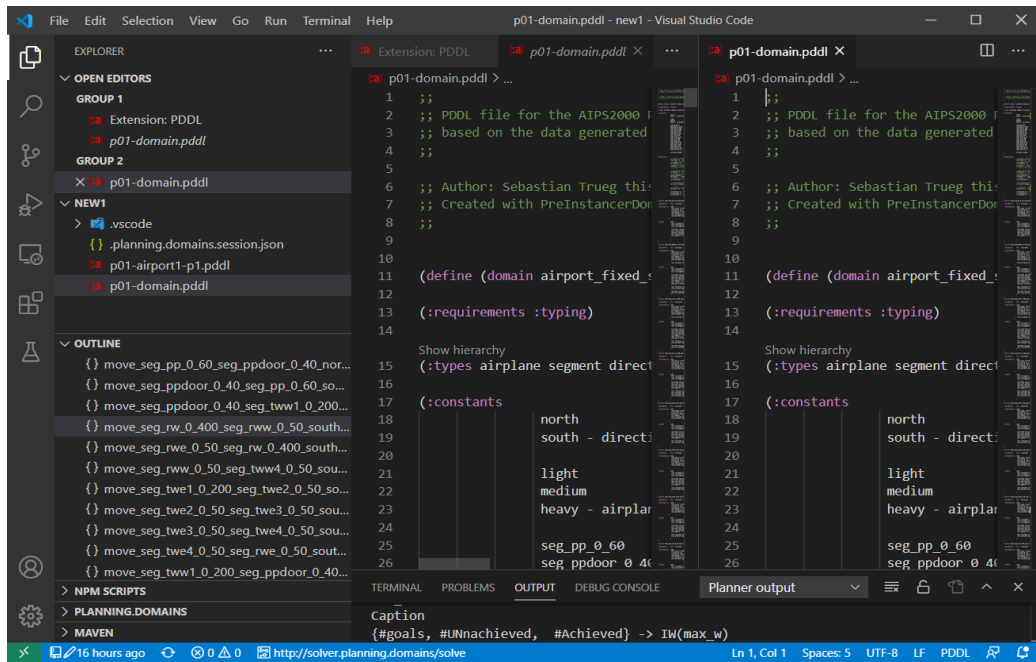
- o **Open the *problem.pddl* file and type problem. The auto-completion suggests to insert the entire structure of the problem file. Make sure that the (domain name) here matches the name selected in the domain file.**
- o **When prompted to install the VAL (i.e. Validator) tools, follow the instructions. This will bring a PDDL parser and plan validation utilities to your experience.**
- o **When you are ready to run the planner on your domain and problem files (both must be open in the editor), invoke the planner via context menu on one of the file text content, or via the Alt + P shortcut. The planning.domains solver will be used, so do not send any confidential PDDL code.**
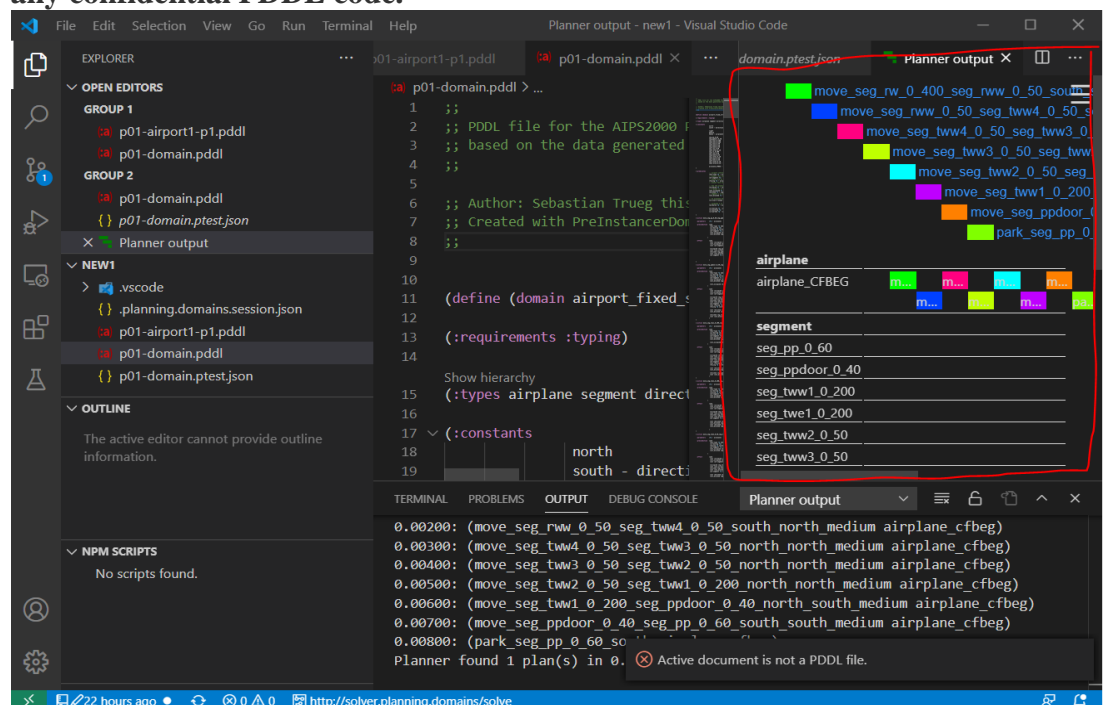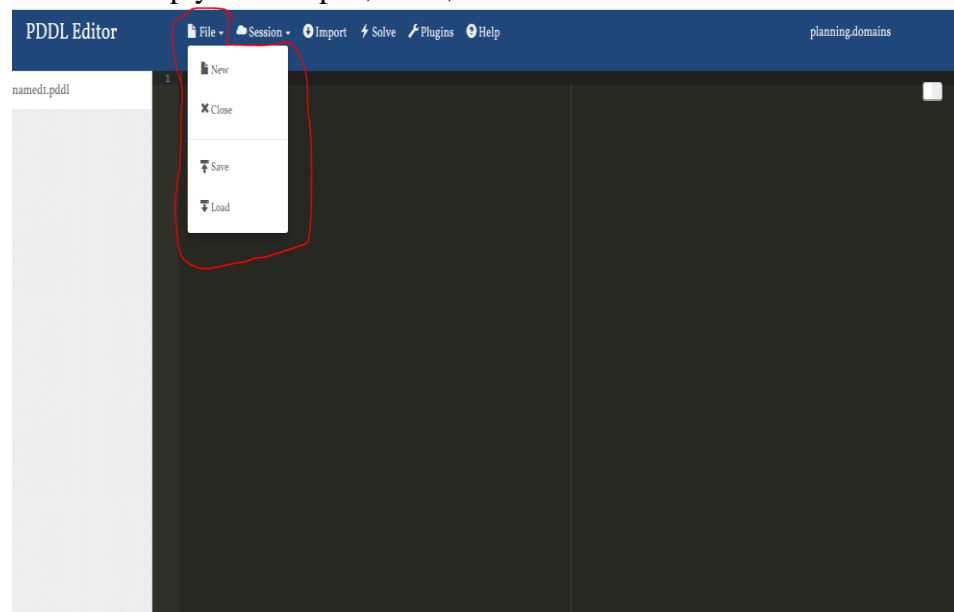
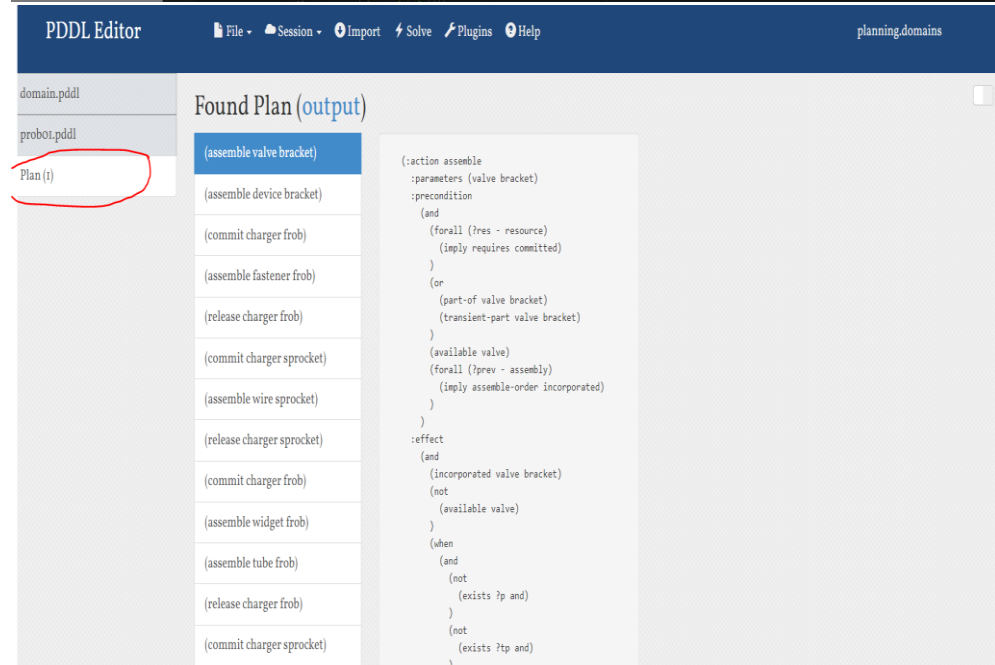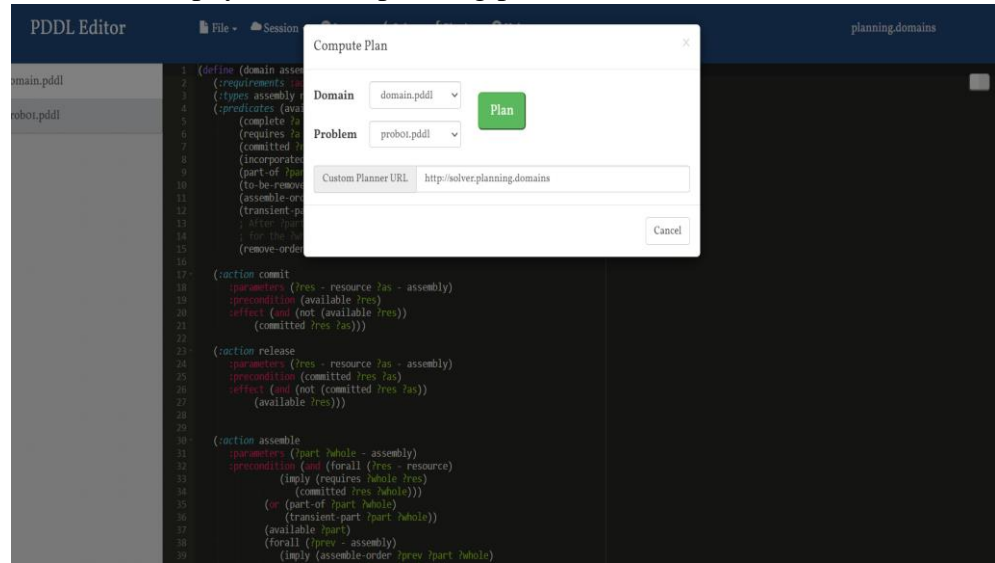o **Configure your own PDDL planner by following [instructions](#).**

Using [Online PDDL Editor](#) for writing and excusing PDDL file
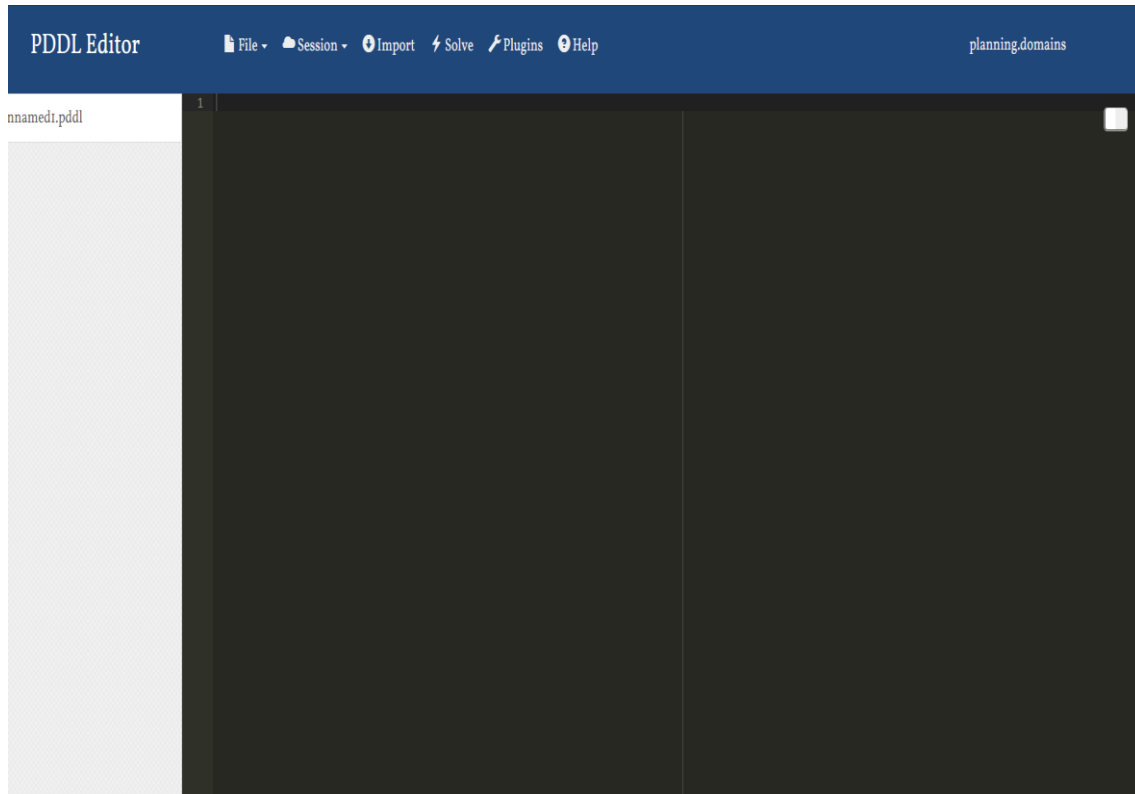
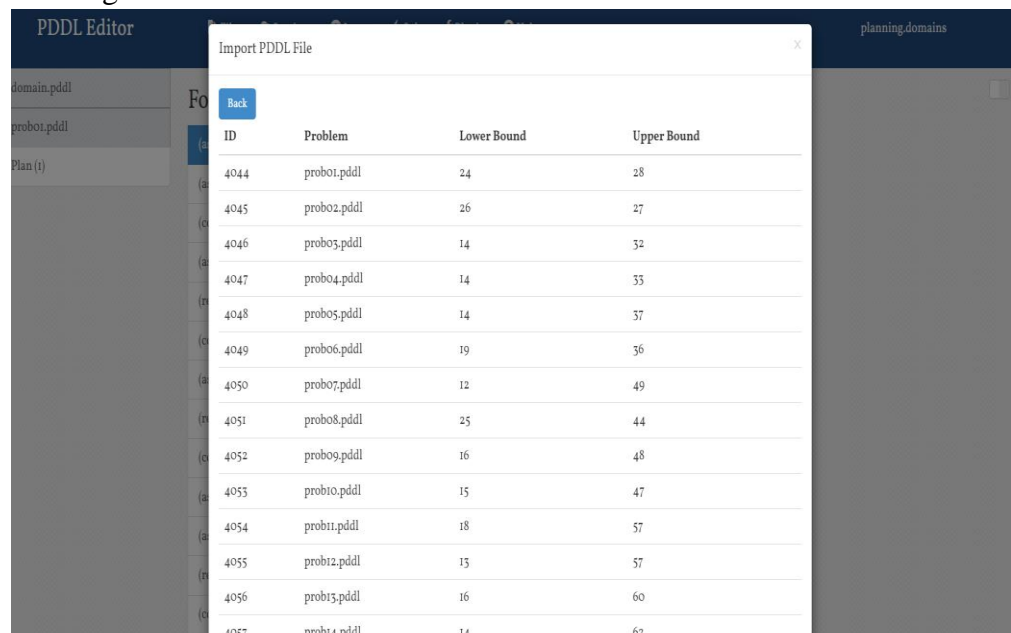o From File tap you can open, close, save and load a PDDL file
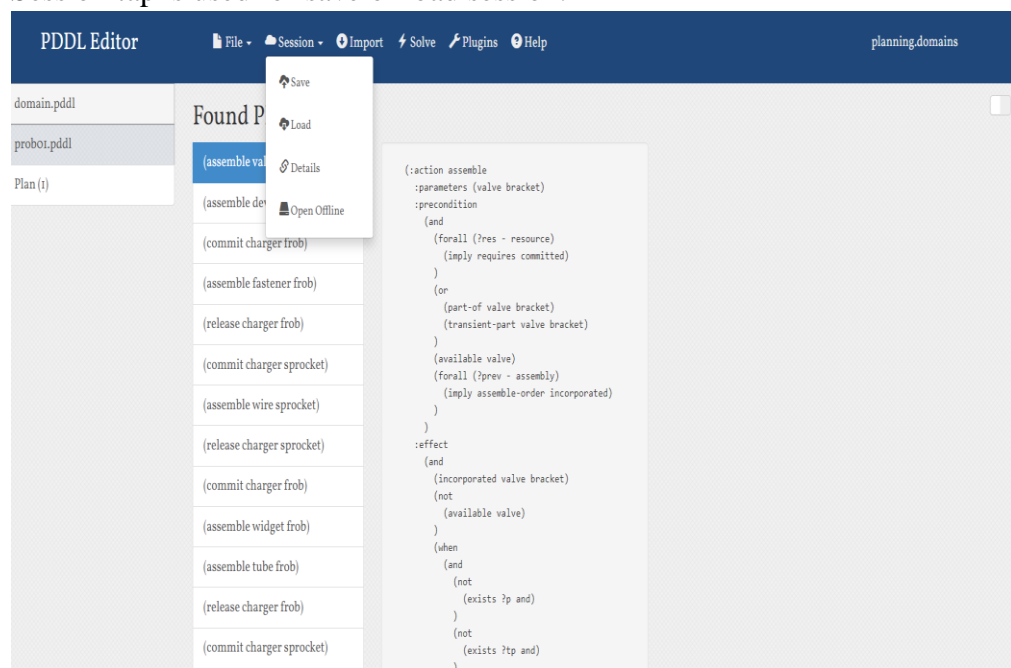
o From Solve tap, you run the planning problem

o

- Import tap is used for find a solution of standard automated planning challenges.

- Session tap is used for save or load session.

- Using open offline in Session tap, firstly you need to save the session and then open offline will allow you to download the project to your computer and open VS code, if you are already installed on your PC. You need to select your local folder to save the project.
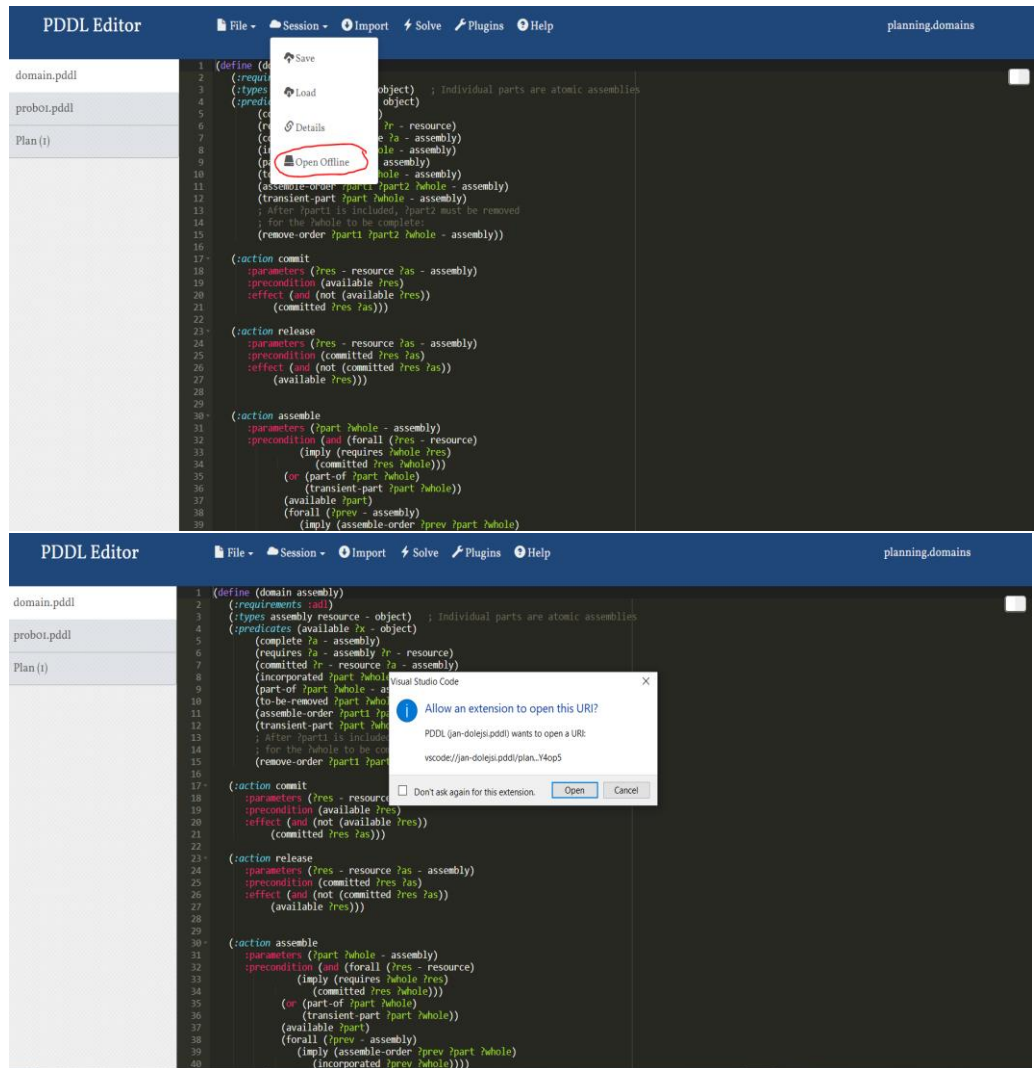
Now it will be opened with VS code.