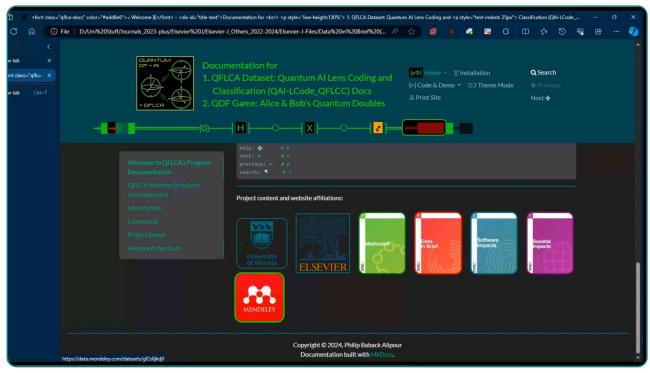
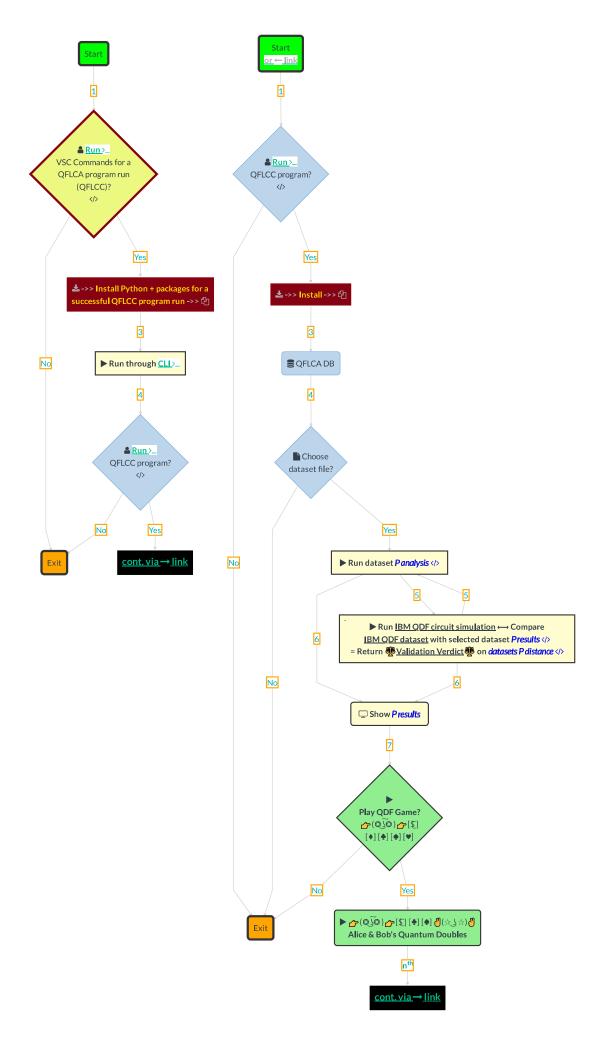
Welcome to Visual Studio Code (VSC) for a QFLCA Code Run



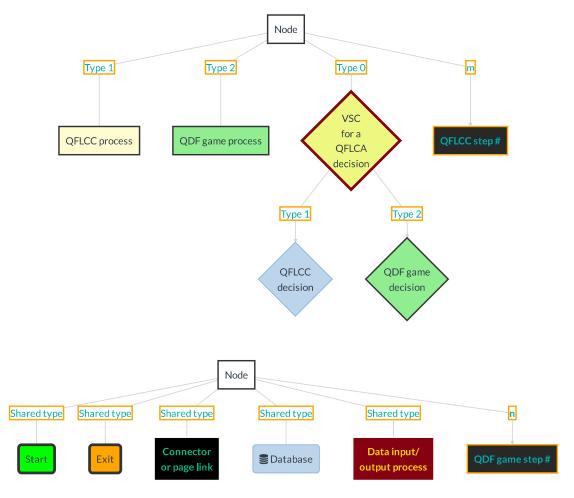
QFLCA Website Installation Demo: 788 MB mp4 file. ▼ | For Subtitles: SRT file. ▼

For the full VSC documentation visit $\underline{visualstudio.com/docs}$ and browse Python on the homepage menu to install packages.

Program installation and code run flowchart



▼ ♦ 🔂 Legend...



▼ i Left flowchart description...

This 5-step diagram represents the flow of installation steps of the QFLCC program to run as QFLCC simulator, listed in the QVSC commands section below, and then its run by the user. It starts with dataset files installation, then the QFLCC program run via the VSC terminal and coding environment.

This 8-step diagram represents the flow of QFLCC steps of the complete QFLCA program (17 steps) after a successful installation (left flowchart) and program run by the user. It starts with dataset files installation, then the selection of one of the datasets for probability P analysis. The results are further compared to the IBM QDF circuit dataset to validate P results between the two datasets by running the IBM QDF simulation module from the QFLCC program. Finally, the program prompts the user to continue by playing the QDF game for further validation of dataset results (P analysis). The diagram continues on the relevant page linked here.

VSC commands

- VS Code program -> View -> Command Palette ... (Ctrl+Shift+P) -> Python:

 Select Interpreter -> select "Python: Select Interpreter" (or Enter) -> select an interpreter based on our chosen Python version under which you have installed the package.
 - Change the VSC Interpreter for the QAI-LCode_QFLCC.py project.
 - <u>Install package under the correct Python version</u>, which means to change your default Python version and repeat the process of installation again.

To change your default Python version (for Windows 10 OS):

- Right click on This PC -> Properties -> (Advanced System Settings) (in the right panel) -> Environment Variables -> System variables (the bottom part of the window) -> double-click on "Path" -> Select the 1st row for the wanted Python version and move it up -> then do the same with the 2nd row. I recommend to restart (close and open again) your Command Prompt session if you want to see/work with the new default Python version. Correct Python version installation.
 - Note on installation: ✓ Following command (in Command Prompt) works: pip3 install pandas --user

Run code commands

You can open a terminal in the current directory of the code as follows:

- Press Ctrl+F5 or select Debug -> Start without Debugging in VSC environment. Run program.
- pip3 install <package name> For missing packages to import modules from, use this Python syntax.
- pip3 install mkdocs For generating documentation and build the documentation site as you change code of this project. Then visit: homepage for more commands on MkDocs, or visit: mkdocs.org.

Optional:

- pip3 install pdoc3
 - For generating documentation and *exe (under Windows OS) use. Then type after installation: pdoc --html pdoc
- [replace the "second pdoc" with your package/directory/filename] to view the documentation of this project. For more information, visit: pdoc3.github.io/pdoc
- Second method is, in the terminal you may run the following command to convert QAI-LCode_QFLCC.py file to QAI-LCode_QFLCC.exe on Windows 10 OS. pip install auto-py-to-exe

Project layout (folder structure)

```
QFLCC classifiers/
                      # The python file home directory. Type in your CLI this command:
                        cd "QFLCC classifiers"
                      \# so to enter it under e.g., Windows OS, as its name has space(s).
 QAI-LCode_QFLCC.py # Main python file. In VSC, press [Ctrl + F5] to run .py in CLI.
      *.py
                      # Python files imported as modules to run by QAI-LCode_QFLCC.py.
                      # Dataset files, etc. used for I/O operations by QAI-LCode_QFLCC.py.
 mkdocs.yml
                      # The configuration file for documentation via <docs> content.
 site/
    index.html
                      # Website homepage created in MkDocs by Markdown files inside <docs>.
                      # Other website pages and their dependencies such as image files.
 docs/
    index.md # The documentation homepage.
              # Other Markdown pages, stylesheets, images, and their dependencies.
```

Project abstract sources, content and website affiliations:















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