

SETTING UP THE PYTHON ENVIRONMENT

➔ Install Anaconda distribution

- Download and install anaconda from here
 - <https://docs.anaconda.com/anaconda/install/index.html>
- Verify your anaconda installation
 - <https://docs.anaconda.com/anaconda/install/verify-install/>

➔ Open Jupyter notebook

- Open notebook from Anaconda navigator - <https://docs.anaconda.com/ae-notebooks/4.3.1/user-guide/basic-tasks/apps/jupyter/>
- Open notebook from shell/terminal - <https://jupyter-notebook-beginner-guide.readthedocs.io/en/latest/execute.html>
- Additional resources to get familiar with notebook
 - <https://www.codecademy.com/articles/how-to-use-jupyter-notebooks>
 - <https://medium.com/codingthesmartway-com-blog/getting-started-with-jupyter-notebook-for-python-4e7082bd5d46>

➔ Import your first library in notebook

- First type `import this` in a notebook cell and run it to see the Zen of Python
- Play around with the `datetime` library using the cheatsheet
 - <https://github.com/Panchamy/TIL6010/tree/main/Additional%20Materials>

➔ Markdown in notebook

Use markdown within jupyter notebook to create notes.

<https://guides.github.com/features/mastering-markdown/>

<https://www.markdownguide.org/basic-syntax/>

➔ Installing libraries

- Install library from conda - `conda install *library_name*`
- Install libraries from .txt file - `conda install --file *path_to_requirements.txt*`
- Create and install library within an environment
 - <https://conda.io/projects/conda/en/latest/user-guide/tasks/manage-environments.html>

CODE MANAGEMENT ENVIRONMENT

➔ Create a personal Github account

Create a free Github account here - <https://github.com/join>

➔ Follow the course GitHub repository

Click on 'Watch' in the course GitHub repository for updated course materials here - <https://github.com/Panchamy/TIL6010>

➔ Install Git (for those who want to use terminal/command prompt) or GitHub desktop

- Download and install git - <https://git-scm.com/downloads>

OR

- Download and install GitHub desktop - <https://desktop.github.com>

➔ Create your own personal repository remotely for the course assignments

- Go to <https://github.com>
- Create a new private repository titled 'TIL6010-Assignments'
- You can also make it private by going to settings.
- Invite the following users to the repository as collaborators - 'Panchamy', 'nguyenthientin'

➔ Clone your personal assignment repository locally

- Using the GitHub desktop - <https://docs.github.com/en/desktop/contributing-and-collaborating-using-github-desktop/adding-and-cloning-repositories/cloning-and-forking-repositories-from-github-desktop>
- Using command line
 - Create a personal access token
 - <https://docs.github.com/en/github/authenticating-to-github/keeping-your-account-and-data-secure/creating-a-personal-access-token>
 - Use the token to clone the repository

➔ First commit in your personal repository

- Using the GitHub Desktop - <https://docs.github.com/en/desktop/contributing-and-collaborating-using-github-desktop/making-changes-in-a-branch/committing-and-reviewing-changes-to-your-project>
- Using the command line - <https://docs.github.com/en/github/managing-files-in-a-repository/managing-files-using-the-command-line/adding-a-file-to-a-repository-using-the-command-line>

➔ How to follow the course content in GitHub?

- Watch the course GitHub here '<https://github.com/Panchamy/TIL6010>' and download/check each time there is any changes or updates

OR

- Clone this repository - <https://github.com/Panchamy/TIL6010>
- Pull regularly from this repository for the updates
- Be careful when you make changes in this folder locally, there will be merge conflicts when you pull.

➔ Error handling within the course

In case of errors or questions, first GOOGLE, second STACKOVERFLOW, third the ISSUES page in the course repository <https://github.com/Panchamy/TIL6010/issues> and finally the INSTRUCTORS.

How to use the issue page in course repository?

- Use the error name as title and label (feel free to create more labels when necessary). Examples of error names are KeyError, NameError, CondaHTTPError, etc.
- Use appropriate labels for each issue
- Help each other out with the errors