1. Install Git on your system. Run a command to check the version.
   👉 Command: `git --version`

2. Configure your Git username and email globally.
   👉 Command: `git config --global ...`

3. Create a new local folder called `python-practice`, initialize it as a Git repository, and check its status.

4. Create a Python file `hello.py` with a simple print statement, add it to staging, and commit it with a message.

5. Create a GitHub account (if not already), then create a new repository called `git-practice`.

6. Connect your local repo to GitHub using `git remote add origin ...`. Push your code.

7. Modify `hello.py` (e.g., add another print), commit, and push again.

8. Create a `.gitignore` file and add rules to ignore `.log` files and `__pycache__/` folder.

9. Clone an existing repository from GitHub (e.g., your classmates or a demo repo).

10. Make a change to the cloned repo, commit, and push it.

◆ Group Work

1. In groups:

   - One student creates a shared repository on GitHub.

   - Others clone it and add their own Python scripts.

- Everyone pushes their changes.

2. Create a situation where two students edit the same line of a file → simulate a **merge conflict**. Try to resolve it.

3. Practice using `git pull` regularly to stay updated with teammates' changes.

4. Write at least **three meaningful commit messages** that describe the changes you made (not "update" or "fix").

◆ Extra Challenge

- Fork an open-source repository on GitHub and clone it.

- Make a small change (like fixing a typo in README) and push it to your fork.

- Create a pull request to the original repository.