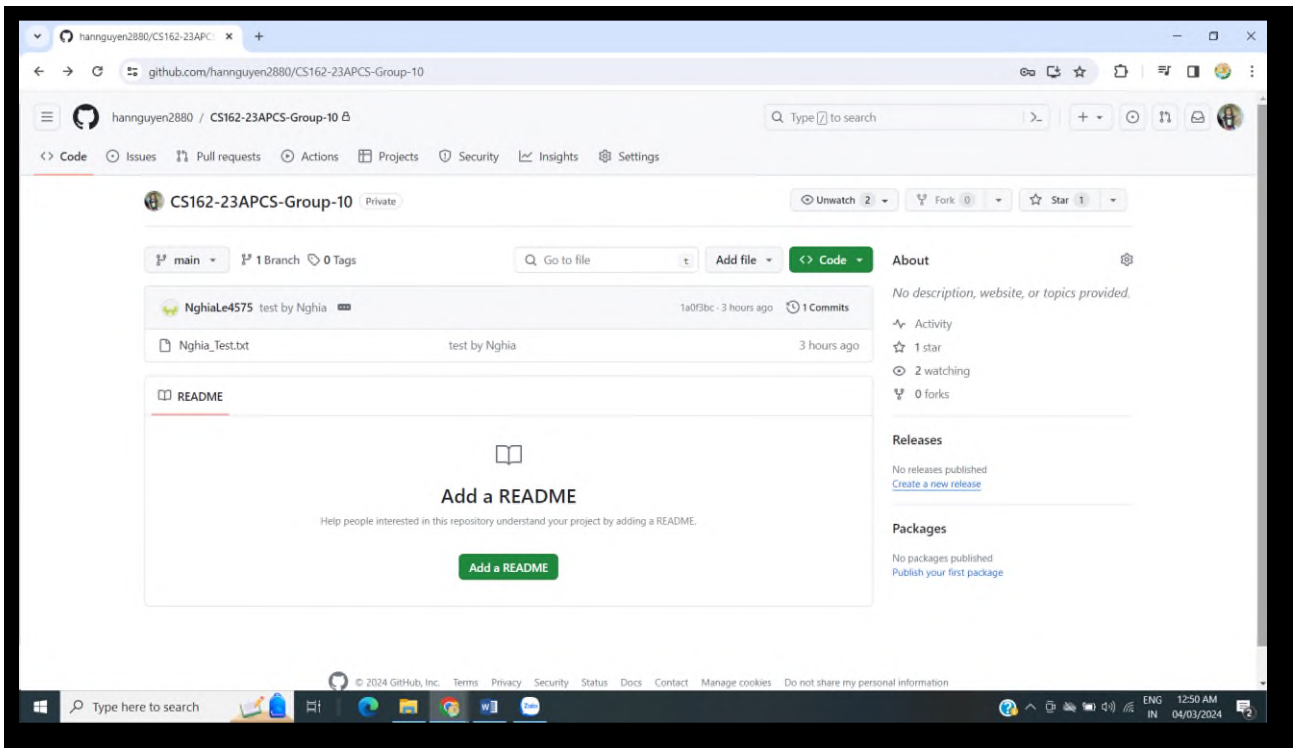
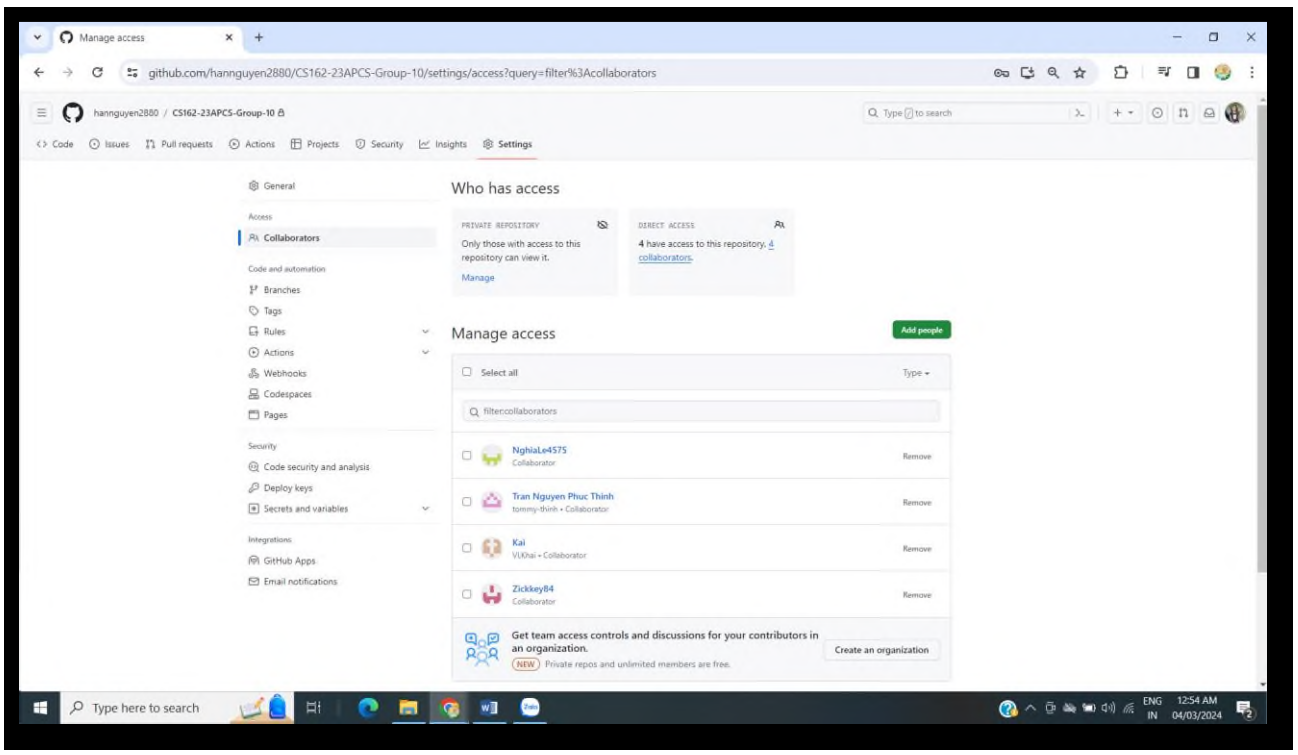
REPORT FOR HOW TO USE GITHUB IN PROJECT ASSIGNMENT

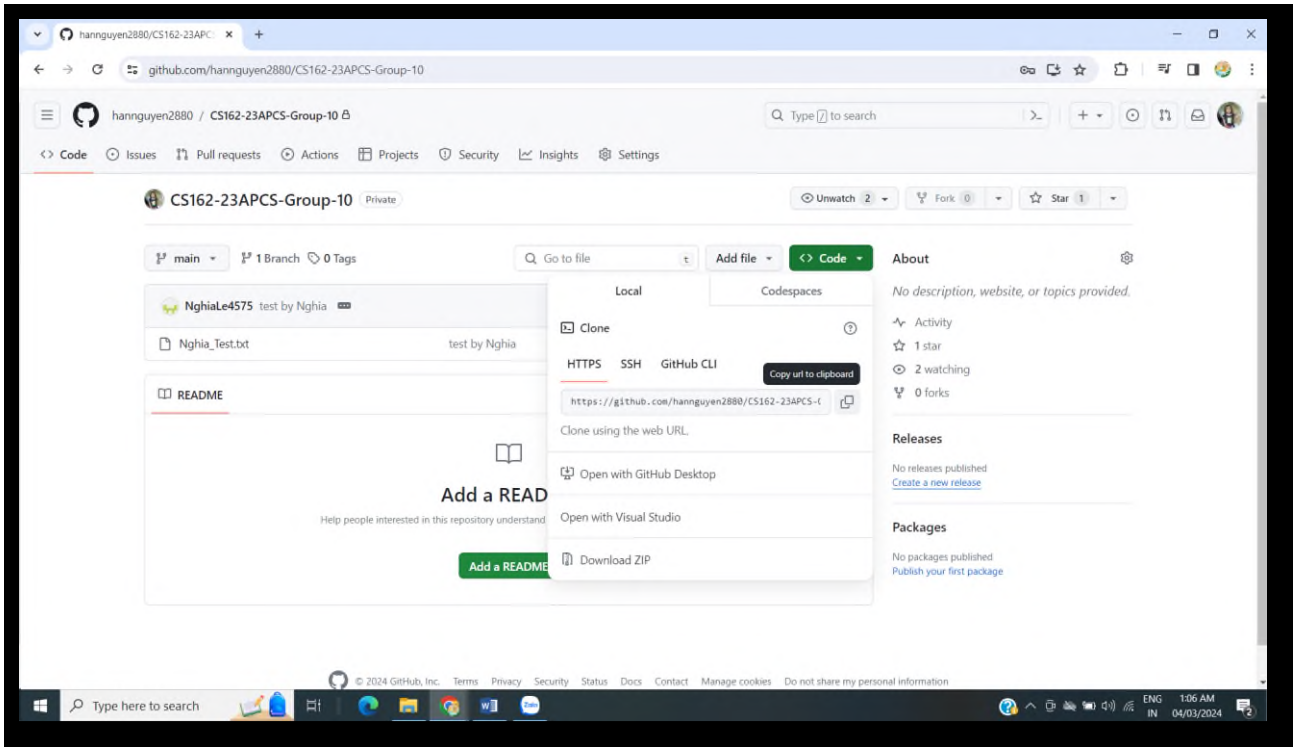
1. Create a private GitHub respository

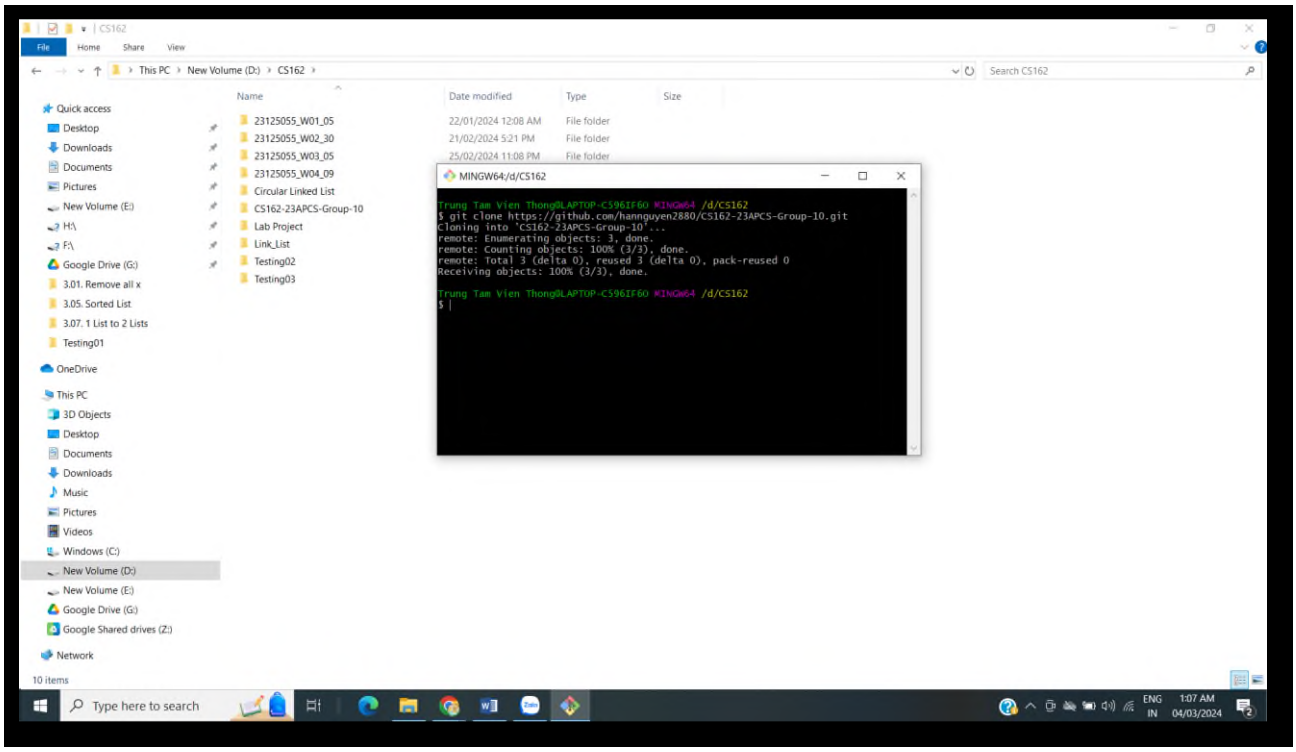


2. Invite all group members to the respository

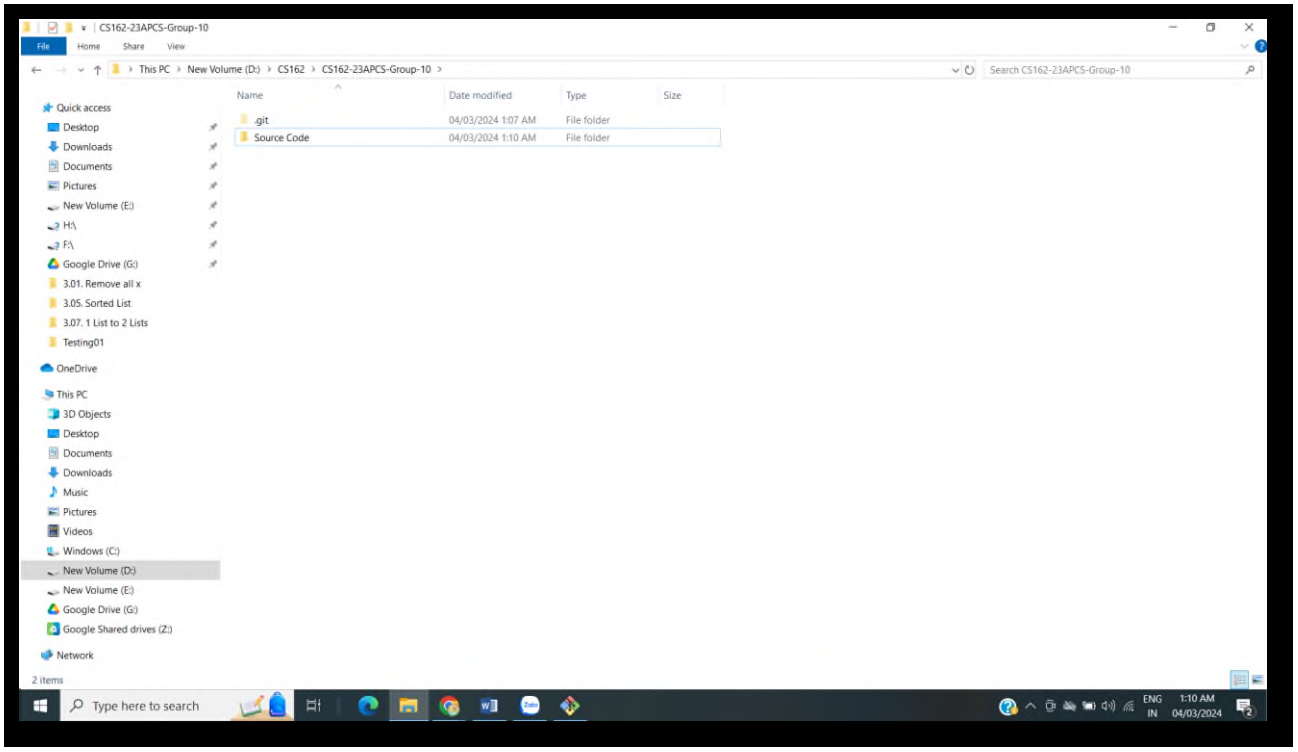


3. Clone the respository to your local machine

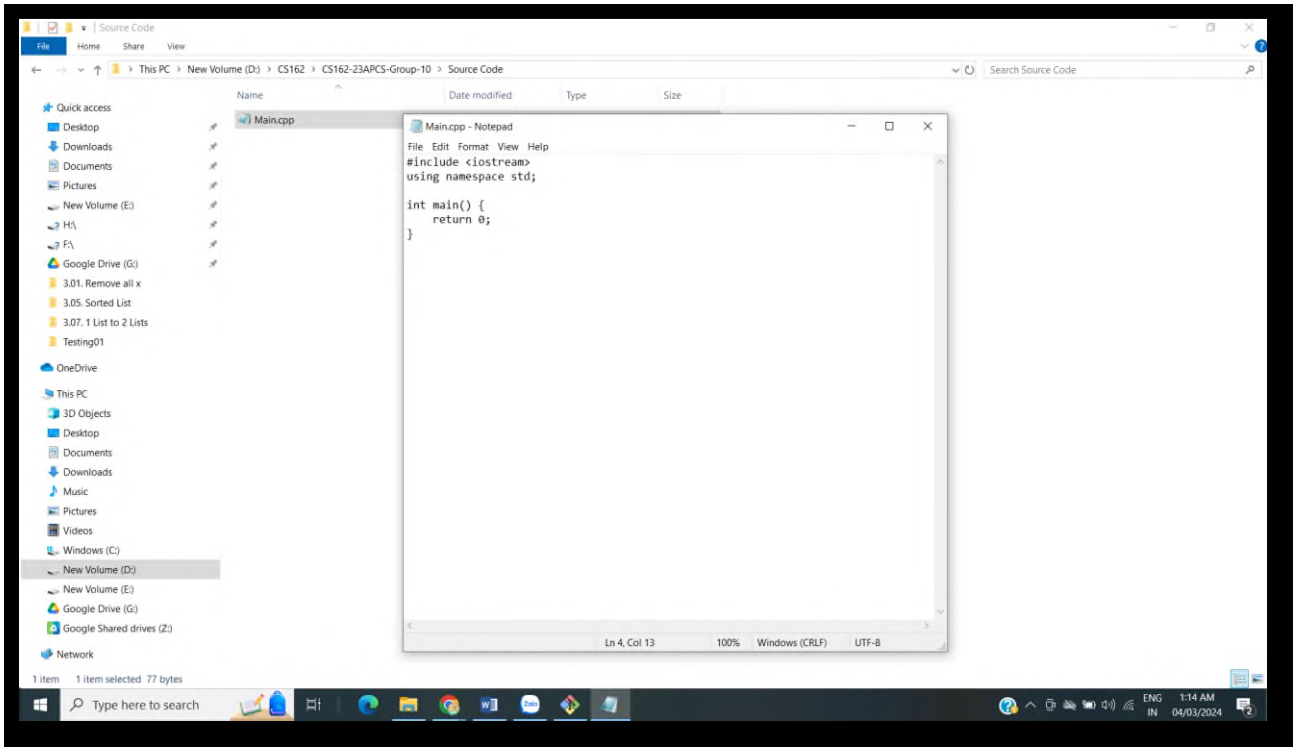




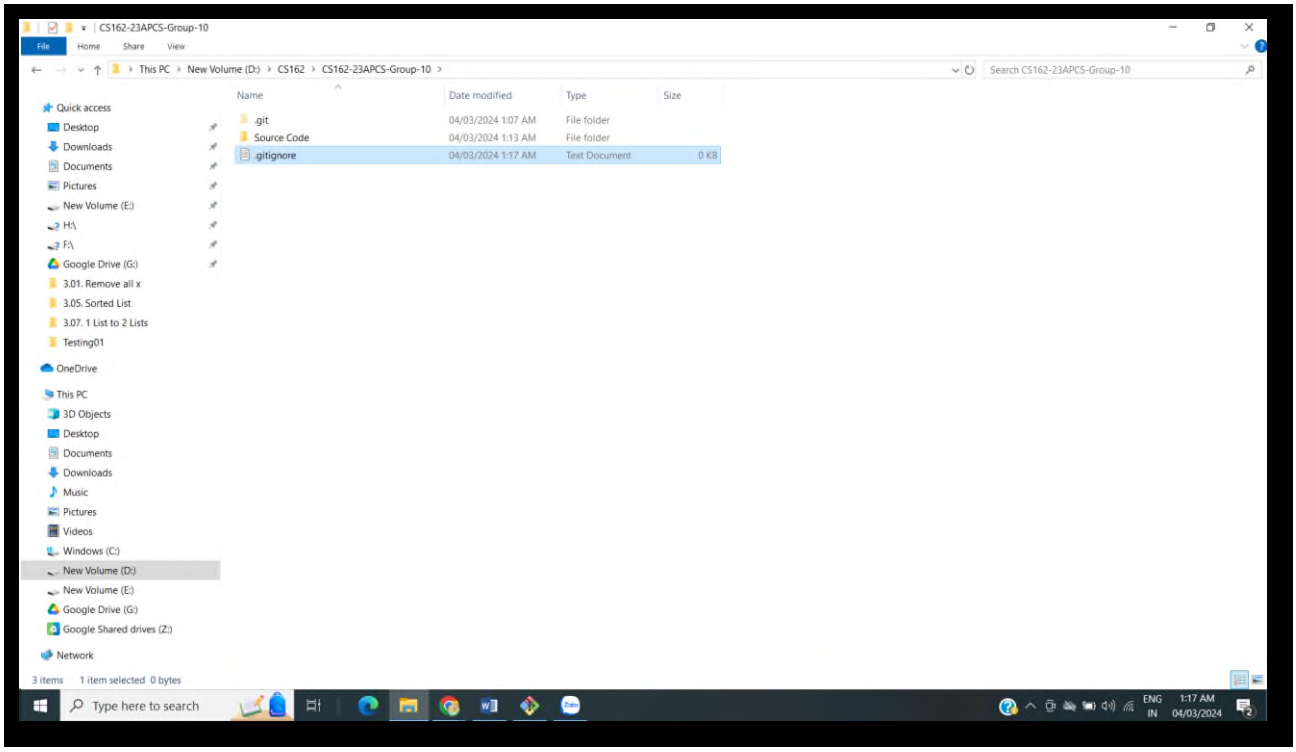
4. Create a folder to store the project's source code files



5. Implement an empty main() function

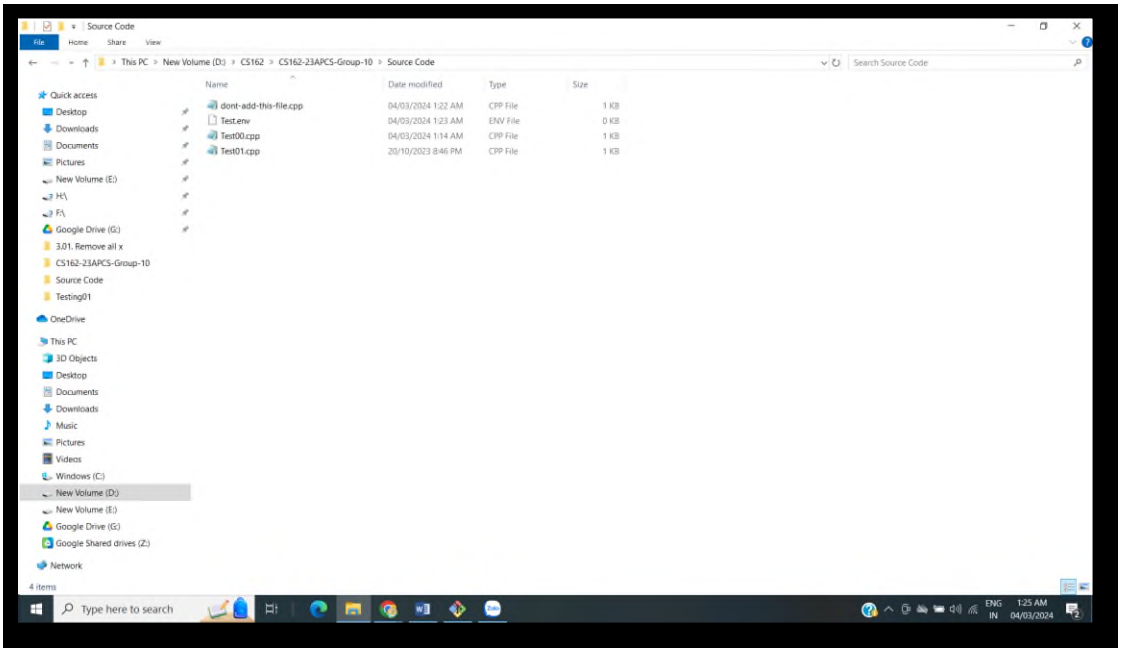


6. Add a .gitignore file to the project

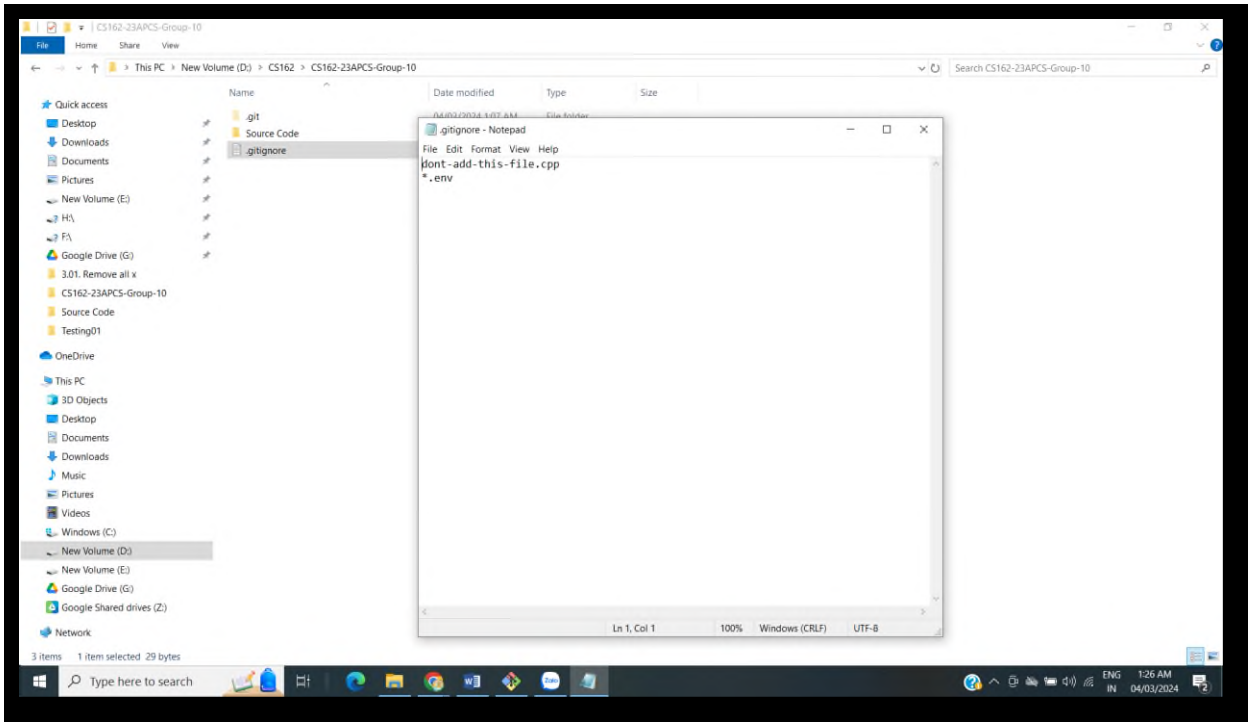


7. Develop additional functions and files to illustrate the use of Git commands: git add, git commit, git push, and git pull.

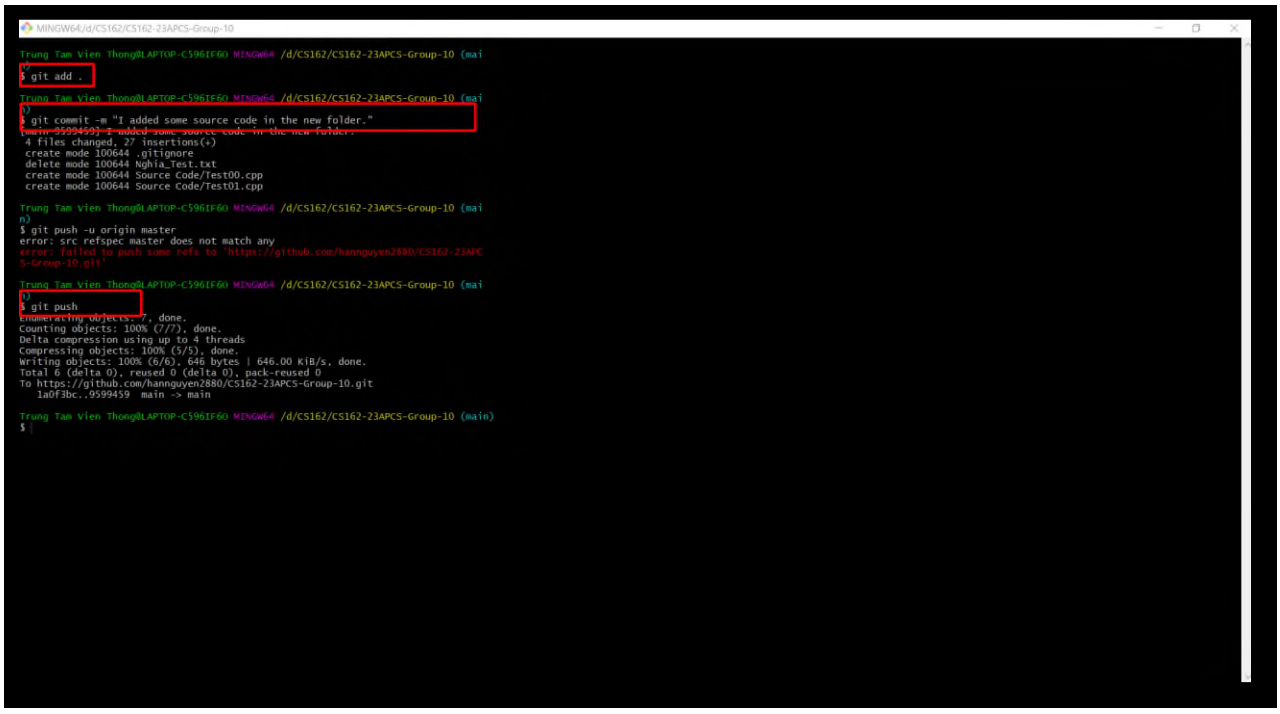
- I already have some of kinds of files in my folder:



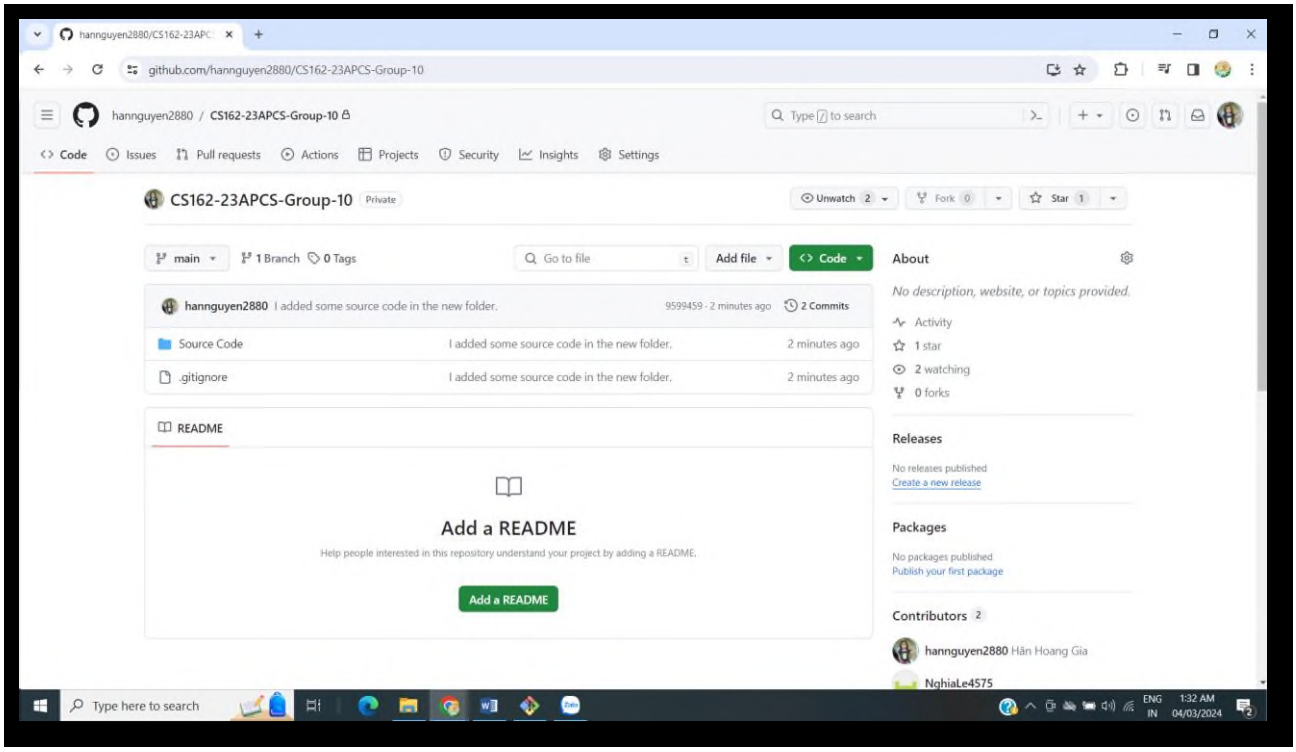
- And this is my .gitignore file:

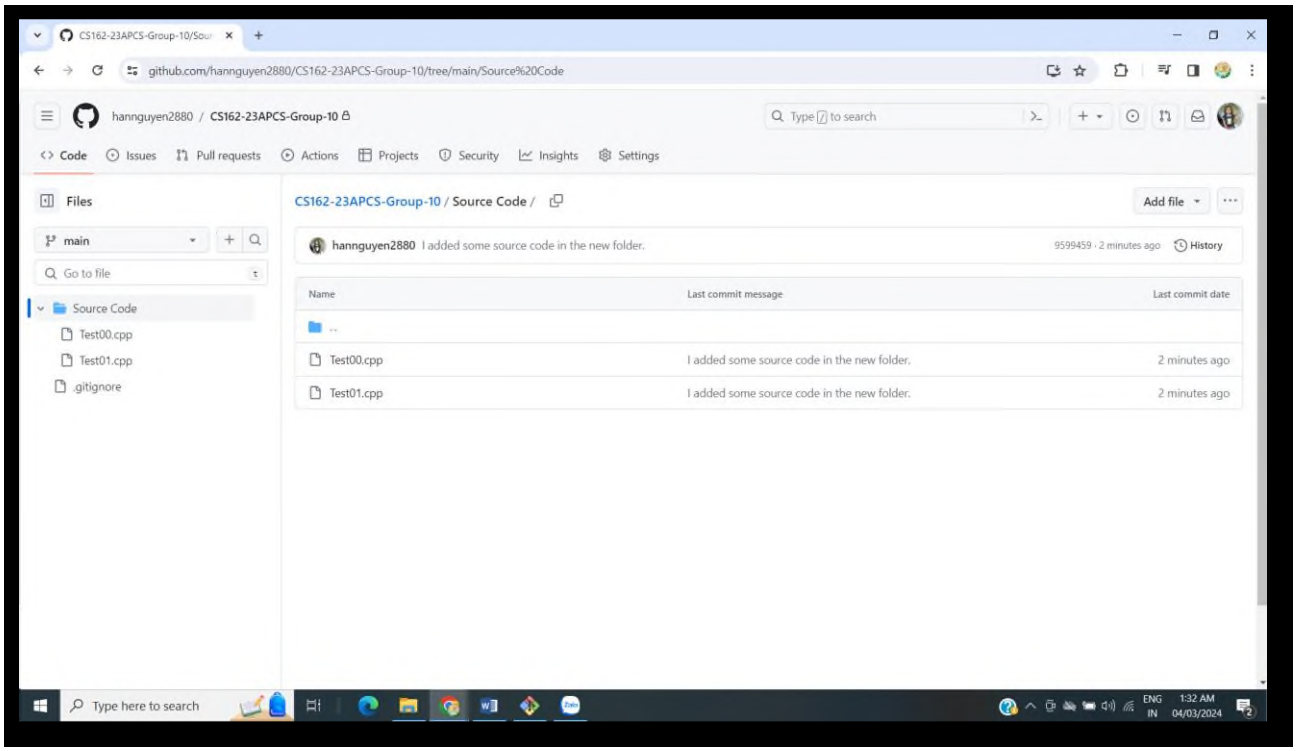


- Okay, now I'll up update this folder on GitHub by git add, git commit and git push.

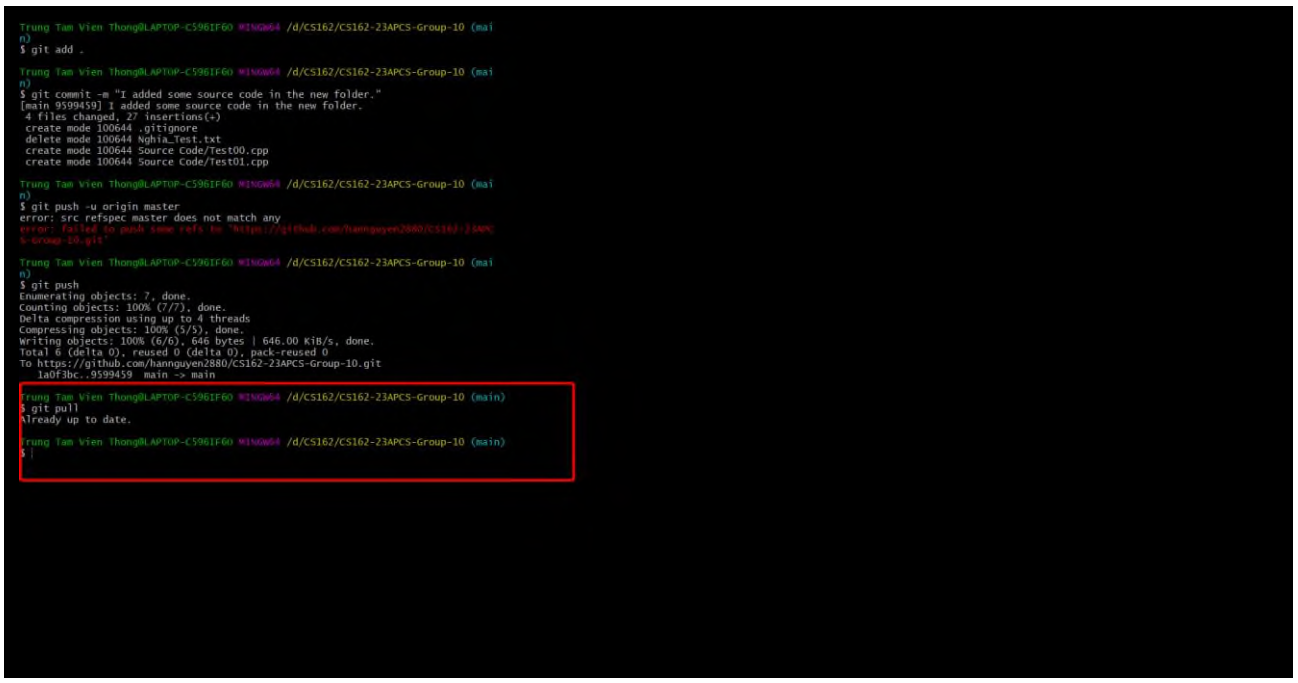


- Now, we check the respository on the Github to see the result:





- About git pull, we use it when we want to fetch and download content from GitHub and immediately update the local repository.

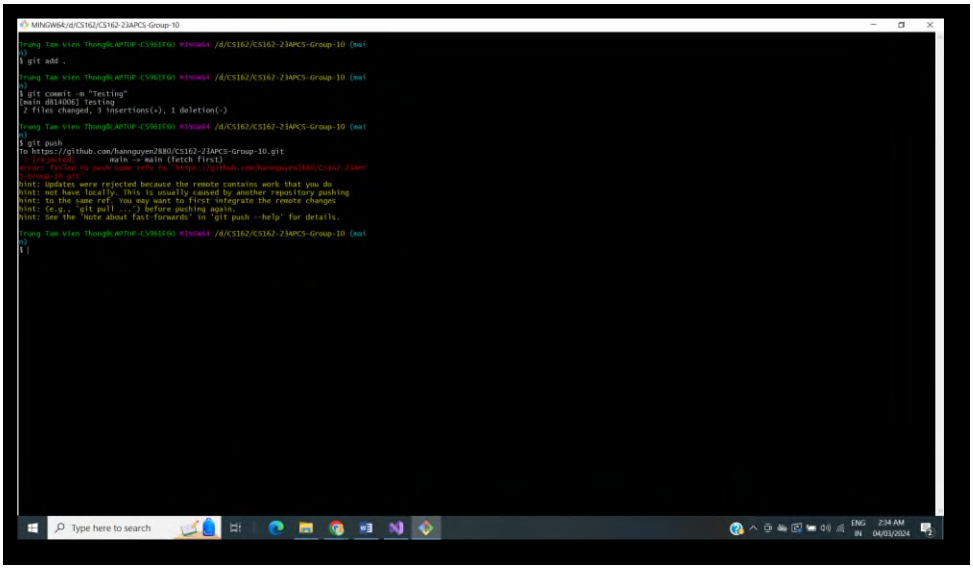


In this case, since everthing is “already up to date”, it means that there’s no change in our project, so there’s nothing to pull.

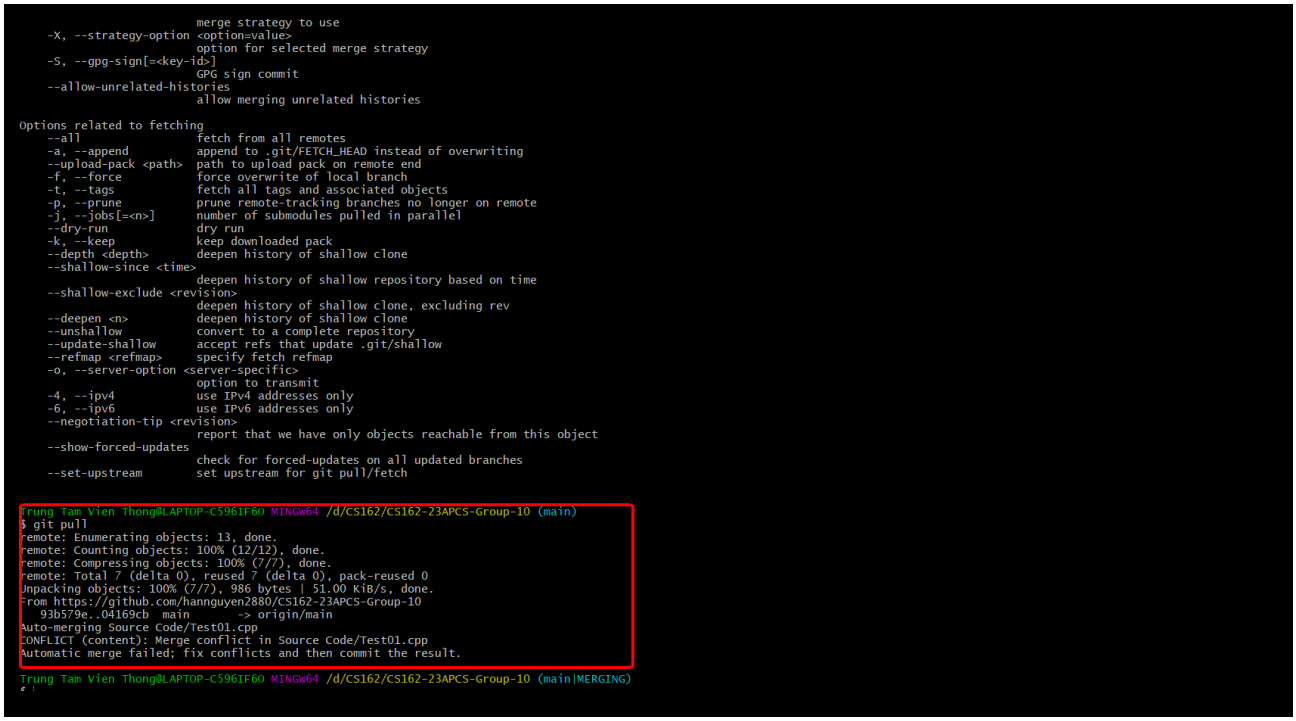
8. Showcase an instance of a code conflict and demonstrate how to resolve it.

- “Code conflict” exists when we use “git push” to push something new on the remote respository, but it’s different from the change that your collaborator has already changed before in that file.

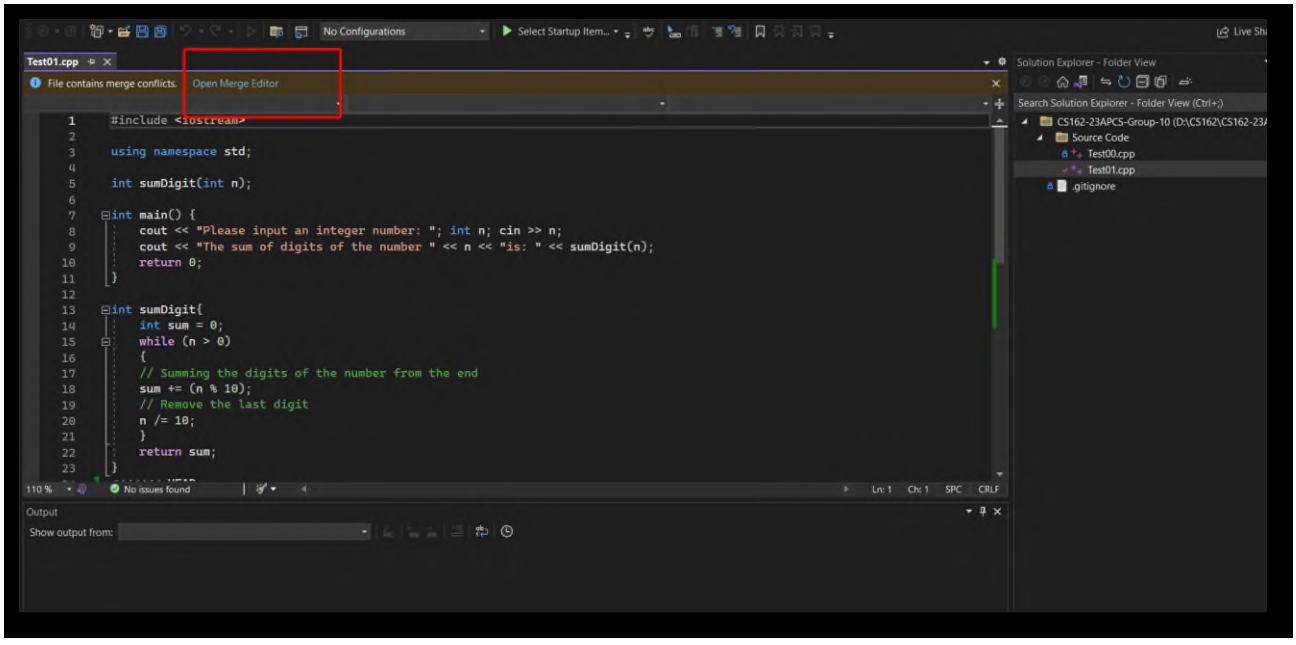
- For example, when I use “git push”, I meet this problem:



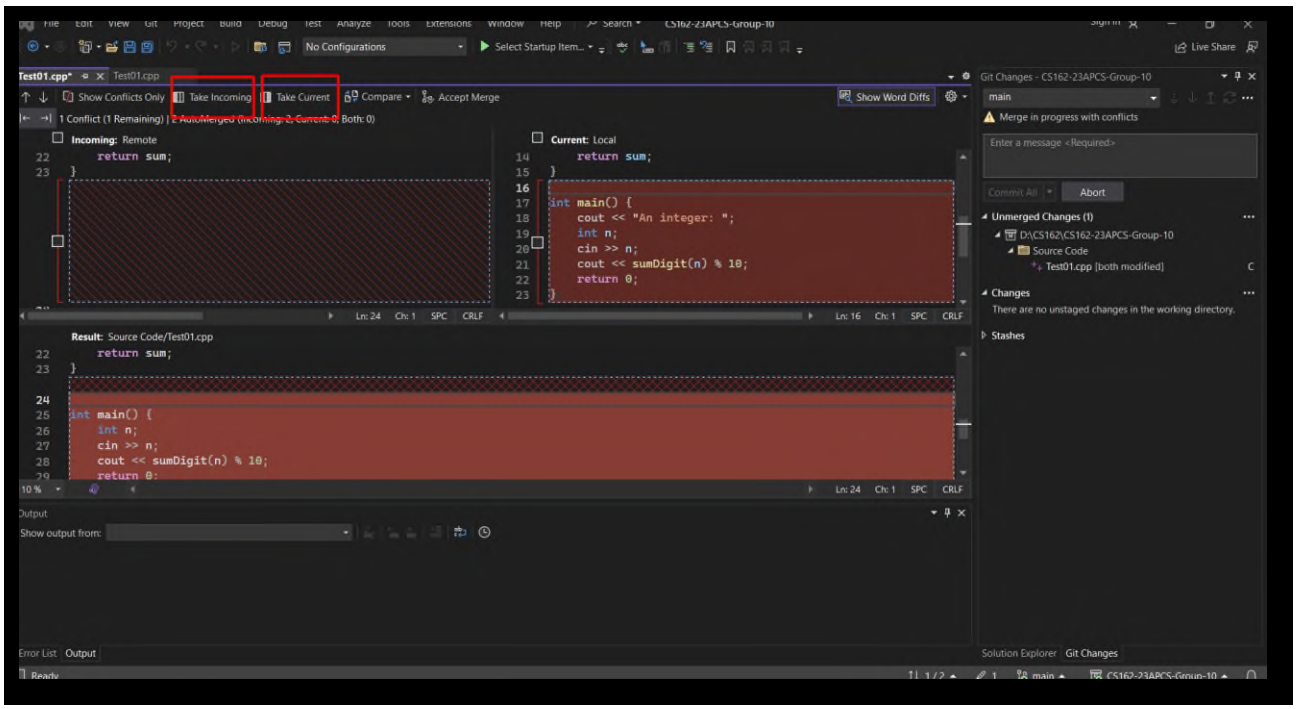
- To resolve it, we have to use “git pull”:



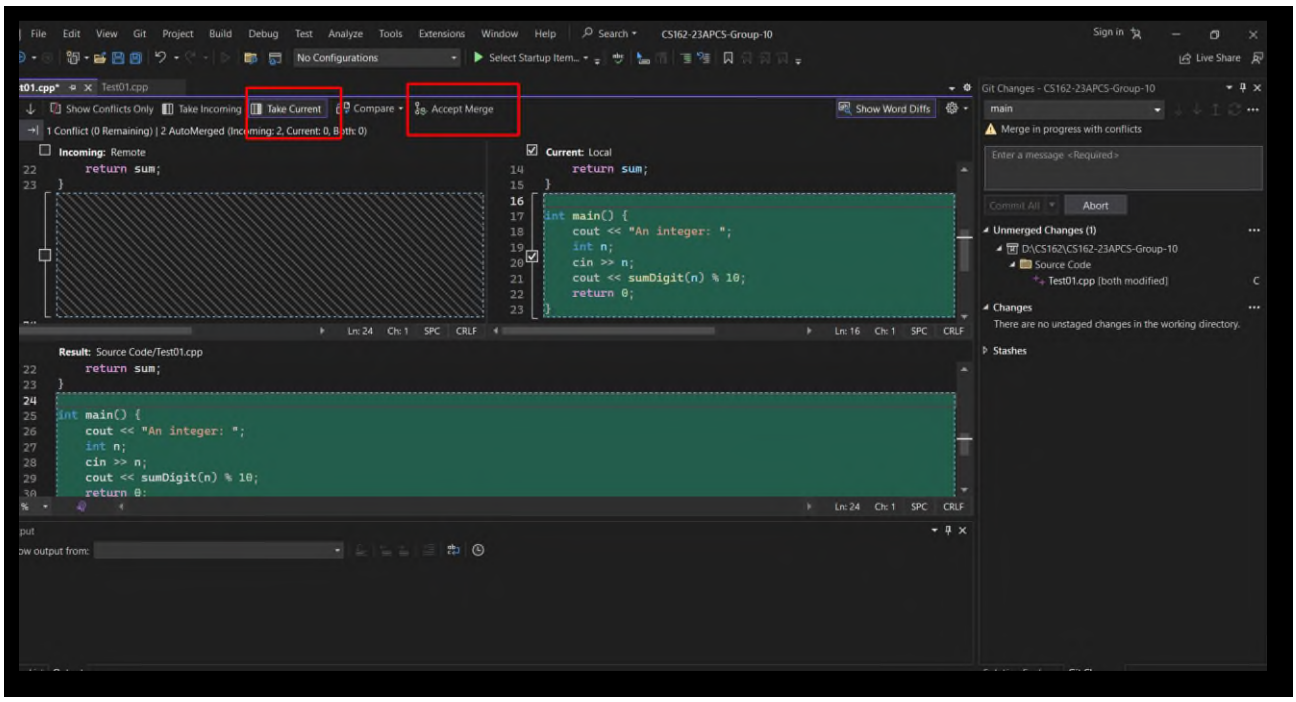
- After that, open your source code, choose “Open Merge Editor”:



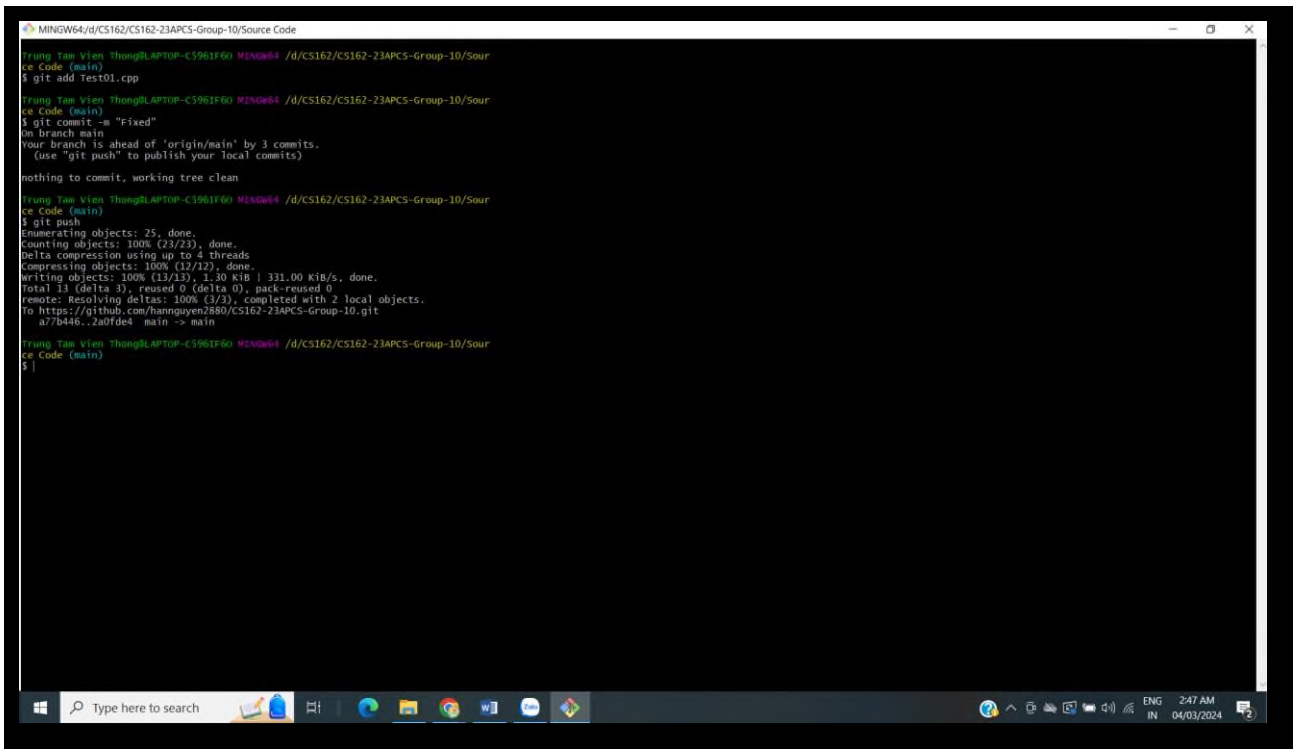
- We can choose “take incoming”, or “take Current”, or we can choose both and fix it by our ourself.



- I'll choose "take current", then click "Accept Merge":



- Now, we resolved the conflict successfully. Finally, we just have to git add, git commit and git push it on the Github.



- And that file on the GitHub has already changed: