

Students working with Git Hub and Visual Studio

1- GitHub register

To register with Git Hub:

<https://github.com/join>

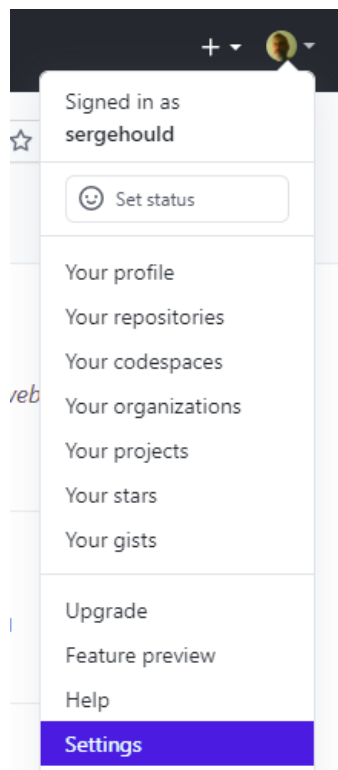
Note: you must provide a username containing part of your name otherwise it will be difficult to recognize you: e.g., John_Brown, Andy2001

Note: you must provide a serious email because that is how the teacher will communicate with you.

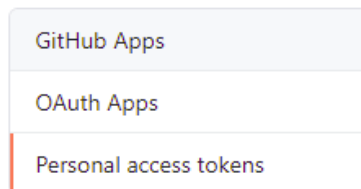
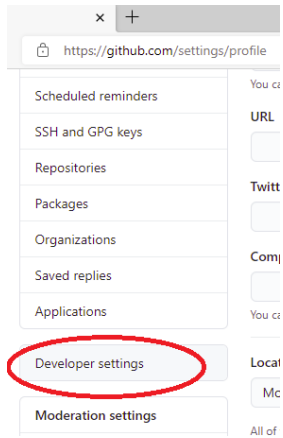
Make sure you are logged in to GitHub.

2- Create Personal Access Token

To generate the access token, from your Github account, go to Settings



Developer Settings:



Generate token by configuring **ALL** privileges on the token and provide meaningful name. (Check every single item of the list:)

| | |
|--|--|
| <input checked="" type="checkbox"/> write:repo_hook | Write repository hooks |
| <input checked="" type="checkbox"/> read:repo_hook | Read repository hooks |
| <input checked="" type="checkbox"/> admin:org_hook | Full control of organization hooks |
| <input checked="" type="checkbox"/> gist | Create gists |
| <input checked="" type="checkbox"/> notifications | Access notifications |
| <input checked="" type="checkbox"/> user | Update all user data |
| <input checked="" type="checkbox"/> read:user | Read all user profile data |
| <input checked="" type="checkbox"/> user:email | Access user email addresses (read-only) |
| <input checked="" type="checkbox"/> user:follow | Follow and unfollow users |
| <input checked="" type="checkbox"/> delete_repo | Delete repositories |
| <input checked="" type="checkbox"/> write:discussion | Read and write team discussions |
| <input checked="" type="checkbox"/> read:discussion | Read team discussions |
| <input checked="" type="checkbox"/> admin:pre_receive_hook | Control enforcement of pre-receive hooks for an organization or repository |
| <input checked="" type="checkbox"/> admin:pgp_key | Full control of user gpg keys (Developer Preview) |
| <input checked="" type="checkbox"/> write:pgp_key | Write user gpg keys |
| <input checked="" type="checkbox"/> read:pgp_key | Read user gpg keys |

Generate token

Cancel

Preserve the newly generated token and **use it as password** for subsequent logins

[Settings](#)
[Developer settings](#)

OAuth Apps

GitHub Apps

Personal access tokens

Personal access tokens

Generate new token

Revoke all

Tokens you have generated that can be used to access the GitHub API.

Make sure to copy your new personal access token now. You won't be able to see it again!


1622155132722935828781452737382634288985

Edit

Delete

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

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GitHub Enterprise 2.13.1

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3- Visual Studio clone and commit

Copy-paste the following URL to accept an invitation for laboratory-1:

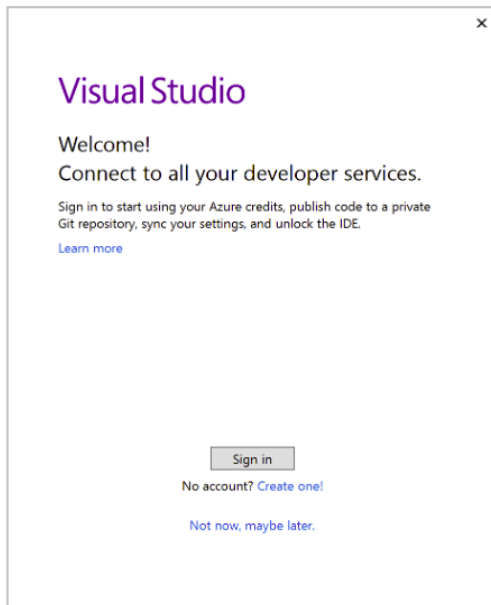
<https://classroom.github.com/a/92TZWj1E>

You will get a private new repository for all Allegro labs

https://github.com/System-Programming-Vanier/allegro_labs-YourName

Open VS 2019

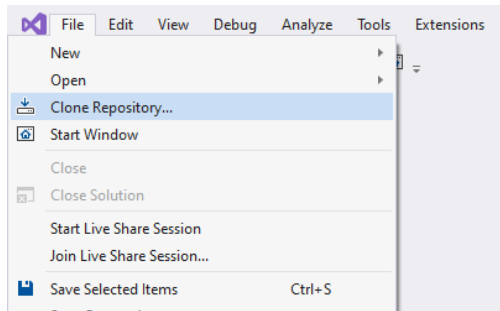
When you open Visual Studio for the first time, you're asked to sign in and provide some basic registration information.



Choose a Microsoft account or a work or school account that best represents you. If you don't have any of these accounts, you can create a Microsoft account for free by clicking the link under the sign in button.

To verify whether you're signed in, look for your name in the upper-right corner of the Visual Studio environment.

Click File -> Clone Repository



Clone a repository

Enter a Git repository URL

Repository location

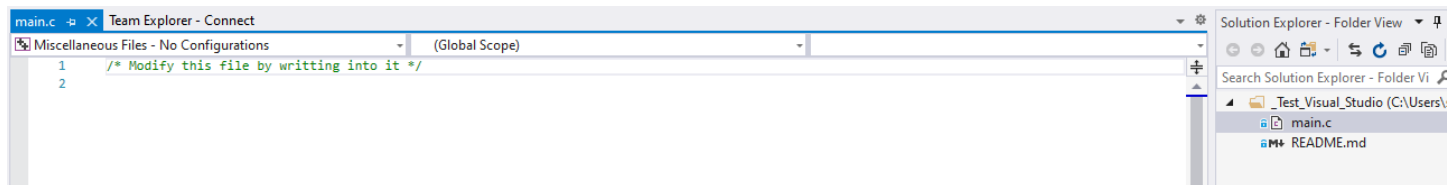
Local path

Browse a repository

Azure DevOps

GitHub

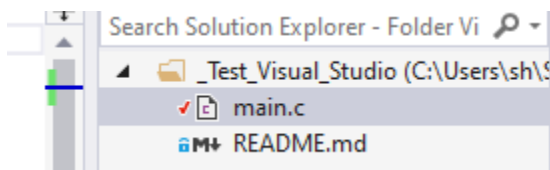
Click on View -> Team explorer



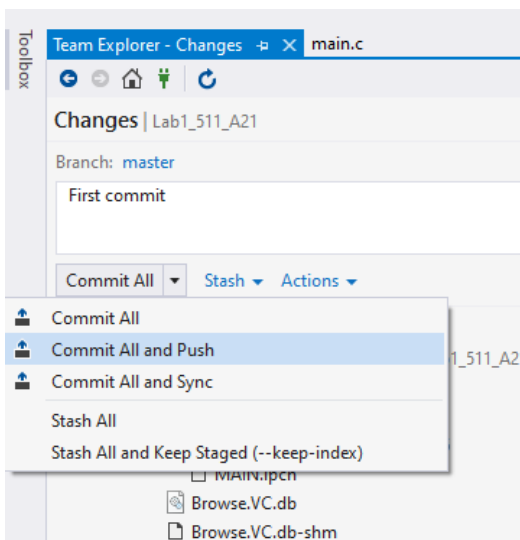
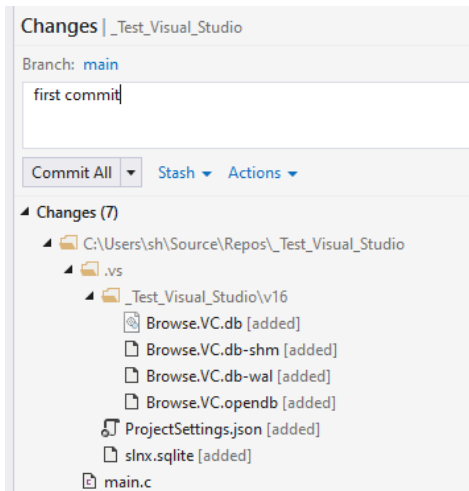
Modify main.c file by writing a few words into it.

Then, save it.

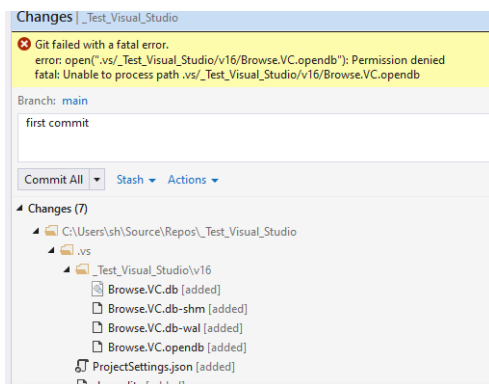
You should see a red check on the left side of the file:



And then commit and push it:



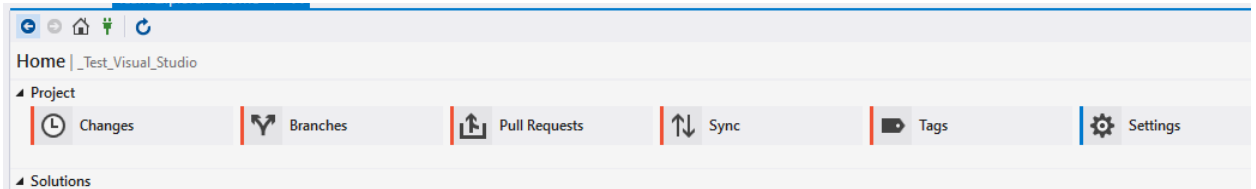
You will most likely get the following message:



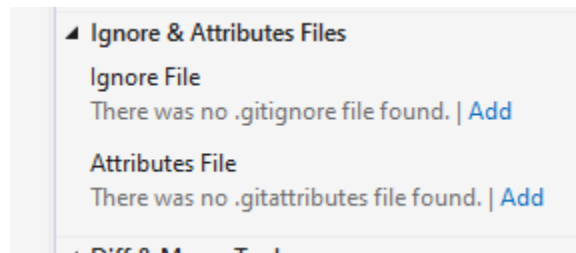
To fix it, there are two options:

4a- Add gitignore and gitattributes files Option 1:

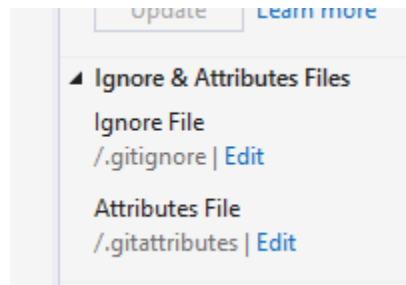
Select Setting -> repository Setting



Click on both Add:



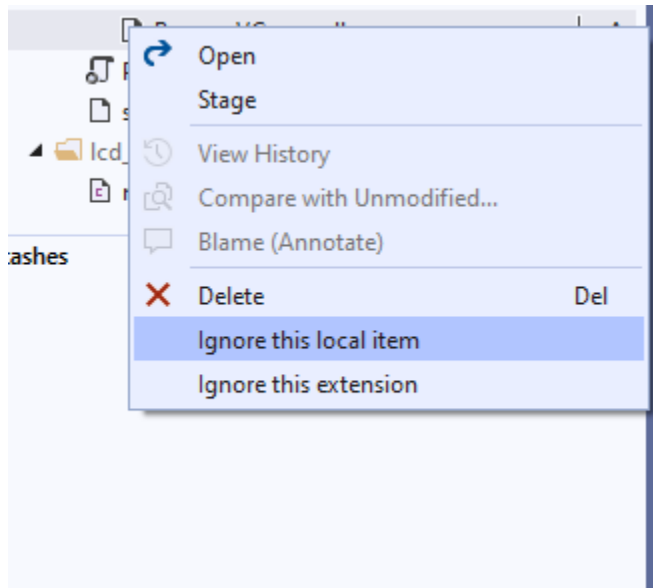
Two files .gitignore and .gitattributes will be created:



4b- Add gitignore and gitattribute files Option 2:

You must disable the VC.opendb file:

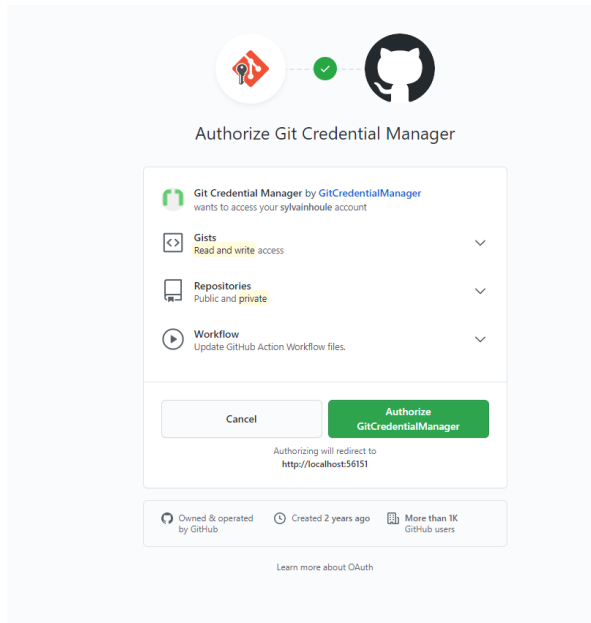
Right click on the file:



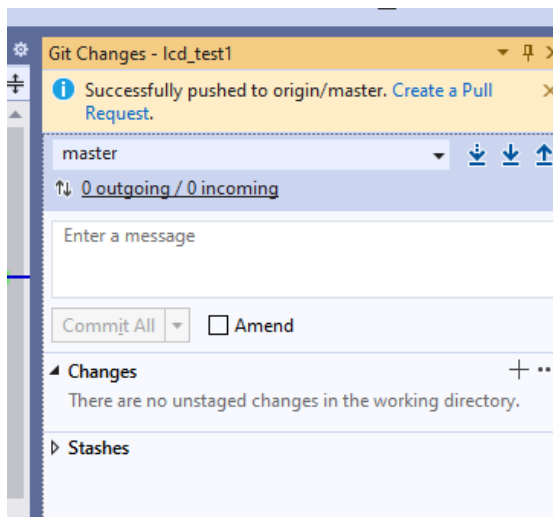
And then select Ignore this local item.

5- Final push

If you try to commit and push, it will then ask you to authorize the Git Credential Manager. Use your new token as a password.



Then it will push successfully:

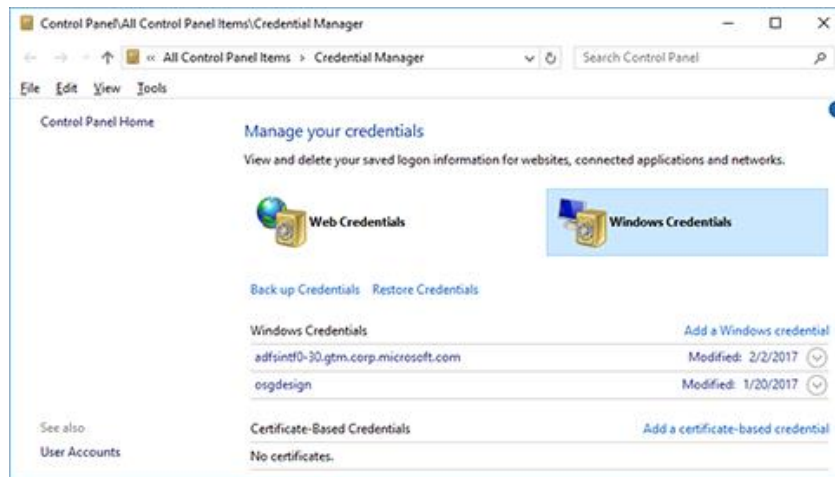


6- Credential Manager

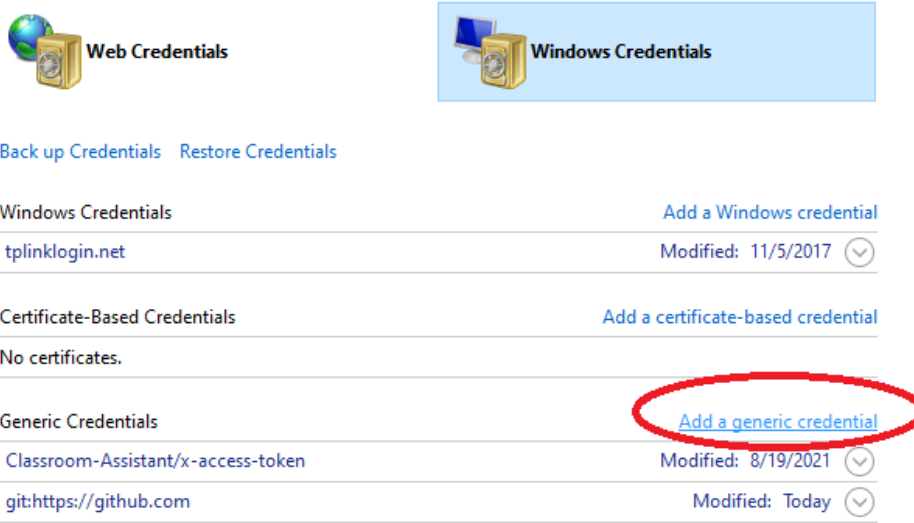
If the Git Credential Manager does not work, use the Windows Credential Manager.

To open Credential Manager, type credential manager in the search box on the taskbar and select Credential Manager Control panel.

Select Windows Credentials to access the credentials you want to manage.



Click on Add a generic credential:



Enter git:https://github.com, your user name and your access token.

Type the website address and your credential information

Make sure that the user name and password that you type can be used to access the location.

Internet or network address:

User name:

Password:

OK

Cancel

Retry to commit and push