



# Git & GitHub Classroom

09-2025

# Nội dung



Git basic  
Git – GitHub – VS code  
Git advanced  
- Individual  
- Team

A



B

GitHub classroom  
- Create classroom  
- Owner, Admin, Teacher, Teacher Assistant (TA)  
- Student roster  
- Assignment  
- Grading

**Student work**  
Git basic  
Join class – Do homework – Submit

C

Git & n8n

D

# Nội dung

PHẦN 1

PHẦN 2

A

GitHub  
Repository

B, C



GitHub - Classroom

B+, C+

Auto-grading

D

Git & n8n



Git – Version control system

# Nội dung



A

Git basic

Git – GitHub – VS code

Git advanced

- Individual
- Team



# Introduction & Installation

[Introduction to Git in VS Code](#)

[Git - Downloads](#)

The screenshot shows the official Git website's "Downloads" page. At the top left is the GitHub logo and the word "git". To its right is a search bar with the placeholder "Type / to search entire site...". On the far right is a dark circular icon. Below the header, there's a sidebar with links: "About", "Documentation", "Downloads" (which is highlighted in red), and "Community". A callout box in the sidebar promotes the "Pro Git book". The main content area has a large heading "Downloads" and three download links: "macOS", "Windows", and "Linux/Unix". Below these links is a note about older releases and the GitHub repository. To the right, there's a graphic of a computer monitor displaying the latest source release version "2.51.0" and a "Download for Windows" button. At the bottom, there are sections for "GUI Clients" (with a link to "View GUI Clients →") and "Logos" (with a link to "View Logos →").

--distributed-even-if-your-workflow-isnt

Type / to search entire site...

About

Documentation

Downloads

GUI Clients

Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

## Downloads

macOS Windows Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

### GUI Clients

Git comes with built-in GUI tools (`git-gui`, `gitk`), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

### Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Latest source Release  
**2.51.0**  
[Release Notes \(2025-08-18\)](#)  
[Download for Windows](#)



# GitHub account

[Sign up](#)[Product](#) [Solutions](#) [Resources](#) [Open Source](#) [Enterprise](#) [Pricing](#) Search or jump to...[Sign in](#)[Sign up](#)

## Build and ship software on a single, collaborative platform

Join the world's most widely adopted AI-powered developer platform.

 Enter your email[Sign up for GitHub](#)[Try GitHub Copilot](#)



# GitHub Create Repository

The screenshot shows the GitHub 'Create a new repository' interface. A context menu is open in the top right corner, with three numbered callouts pointing to specific elements:

- Callout 1 points to the 'New repository' option in the context menu.
- Callout 2 points to the 'Import repository' option in the context menu.
- Callout 3 points to the 'vnTranT' owner field in the 'General' section of the form.

**Create a new repository** Preview [Switch back to classic experience](#)

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#). Required fields are marked with an asterisk (\*).

**1 General**

Owner \* vnTranT / Repository name \*

Great repository names are short and memorable. How about [stunning-goggles](#)?

Description

0 / 350 characters

**2 Configuration**

Choose visibility \* Public

Choose who can see and commit to this repository

Start with a template No template

Templates pre-configure your repository with files.

Add README Off

READMEs can be used as longer descriptions. [About READMEs](#)

Add .gitignore

.gitignore tells git which files not to track. [About ignoring files](#)

No .gitignore

Add license

Licenses explain how others can use your code. [About licenses](#)

No license

**Create repository**

<https://github.com/new>



# GitHub Create Repository

The screenshot shows a GitHub repository page for 'vnTranTuan/FPOLY-COM108-HelloWorld'. The repository is public and contains one branch ('main') and one commit ('Initial commit' by 'vnTranTuan'). The README file is present but empty. The repository has 0 stars, 0 forks, and 0 watching. It also has no releases or packages published.

**Code** Issues Pull requests Actions Projects Wiki Security Insights Settings

**FPOLY-COM108-HelloWorld** Public

main 1 Branch 0 Tags Go to file + Code About

No description, website, or topics provided.

vnTranTuan Initial commit e97badd · 42 minutes ago 1 Commit

README.md Initial commit 42 minutes ago

README

**FPOLY-COM108-HelloWorld**

Readme Activity 0 stars 0 watching 0 forks

Releases No releases published [Create a new release](#)

Packages No packages published [Publish your first package](#)

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# VS Code **Clone** Hello Project

The screenshot shows the Visual Studio Code interface. A yellow box highlights the 'Clone Git Repository...' option in the 'Start' menu, which is circled with a large orange number '1'. Another yellow box highlights the URL 'https://github.com/vnTranTuan/FPOLY-HelloWorld' in the address bar, which is circled with a large orange number '2'. The interface includes a 'Recent' section, a 'Walkthroughs' section with links like 'Get started with VS Code', and a status bar at the bottom.

1

2

https://github.com/vnTranTuan/FPOLY-HelloWorld

Visual Studio Code  
Editing evolved

Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...**
- Connect to...
- Generate New Workspace...

Recent

- FPOLY-HelloWorld E:\WorkFolder\2025\HelloProject
- https---github.com-vnTranTuan-FPOLY-COM108-HelloWorld E:\WorkFolder\20...

Walkthroughs

- Get started with VS Code**  
Customize your editor, learn the basics, and start coding
- Get Started with C++ Development** New
- Learn the Fundamentals**
- GitHub Copilot** Updated
- Get Started with Python Development** Updated

Show welcome page on startup

0 △ 0

Go Live Continue



# VS Code **Clone** Hello Project

The screenshot shows the VS Code interface with the following details:

- Title Bar:** Displays the search bar with "FPOLY-HelloWorld".
- Activity Bar (Left):** Includes icons for File, Find, Go, Open, Save, and others.
- Explorer View:** Shows the project structure under "FPOLY-HELLOWORLD": ".vscode", "hello.c" (selected), and "hello.exe".
- Code Editor (Right):** Displays the "hello.c" file content:

```
1 #include<stdio.h>
2
3 int main() {
4     printf("Hello, World!");
5     return 0;
6 }
```
- Bottom Status Bar:** Shows the current branch "master", commit count "0", warning count "0", and other status indicators like Git Graph, Spaces: 4, UTF-8, CRLF, and file type indicators.



# Ví dụ - GitHub Create Empty Repository

Đăng nhập vào GitHub

1. Click nút
2. Chọn menu **New repository**
3. Điền thông tin

**Repository name**

Ví dụ :

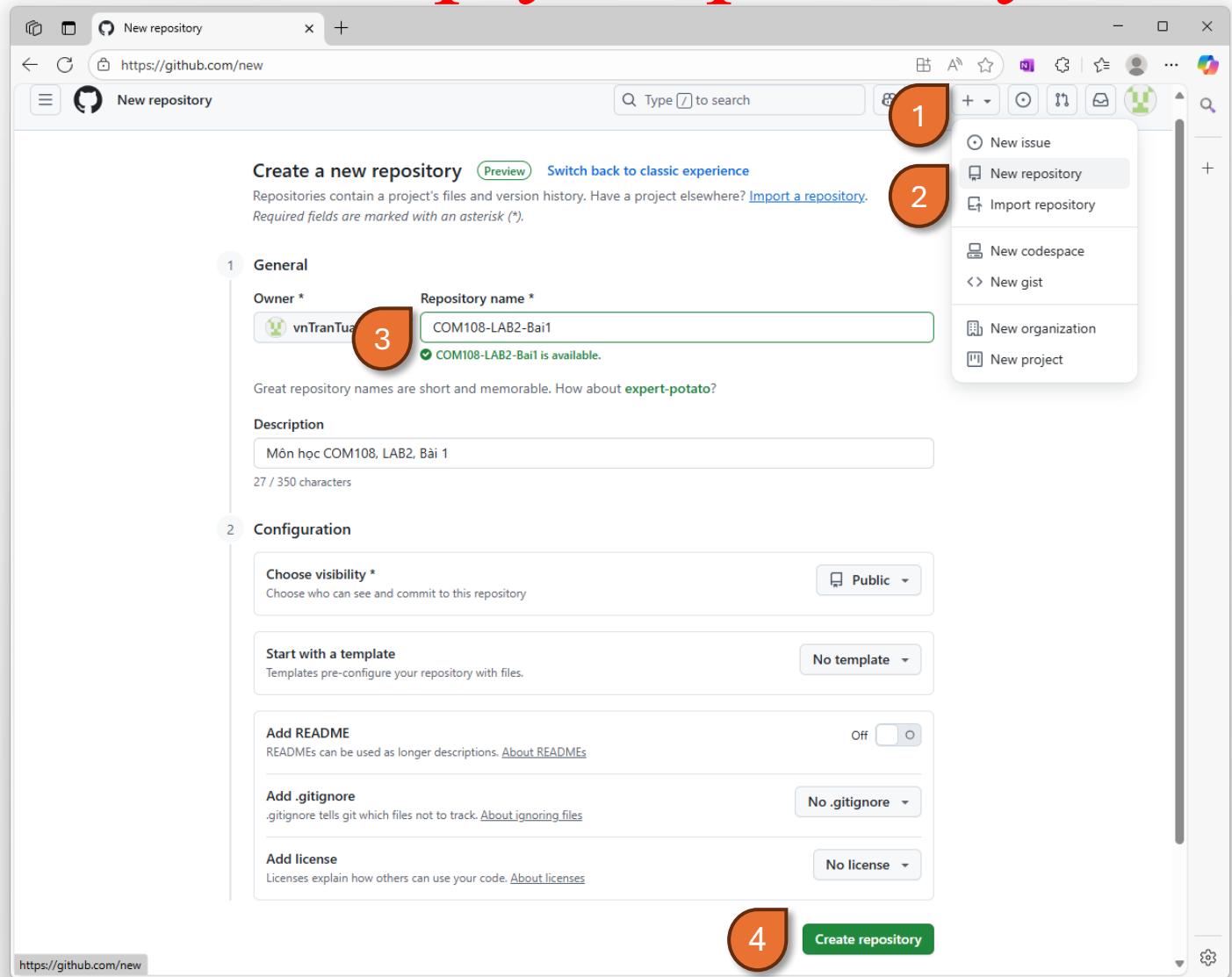
**COM108-LAB2-Bai1**

**Description**

Ví dụ :

**Môn học COM108, Repository của LAB2, Bài 1**

4. Click nút **Create repository**





# Ví dụ - GitHub Create Empty Repository

Trang web của repository đã tạo

1

`https://github.com/<user name>/<repository name>`

The screenshot shows a GitHub repository page for 'vnTranTuan/COM108-LAB2-Bai1'. A yellow callout box highlights the URL 'https://github.com/vnTranTuan/COM108-LAB2-Bai1' with a red number '1' above it. Below the URL, the page displays 'Quick setup — if you've done this kind of thing before' with options for 'Set up in Desktop' or 'HTTPS / SSH'. It also provides command-line instructions for creating a new repository or pushing an existing one. A red number '2' is placed above the 'Quick setup' section.

1

https://github.com/<user name>/<repository name>

2

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS / SSH https://github.com/vnTranTuan/COM108-LAB2-Bai1.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# COM108-LAB2-Bai1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/vnTranTuan/COM108-LAB2-Bai1.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/vnTranTuan/COM108-LAB2-Bai1.git
git branch -M main
git push -u origin main
```



# Ví dụ - GitHub Create Empty Repository

## LƯU Ý

Quick setup của Empty repository đã tạo

2

Quick setup — if you've done this kind of thing before

[Set up in Desktop](#) or [HTTPS](#) [SSH](#) <https://github.com/vnTranTuan/COM108-LAB2-Bai1.git>

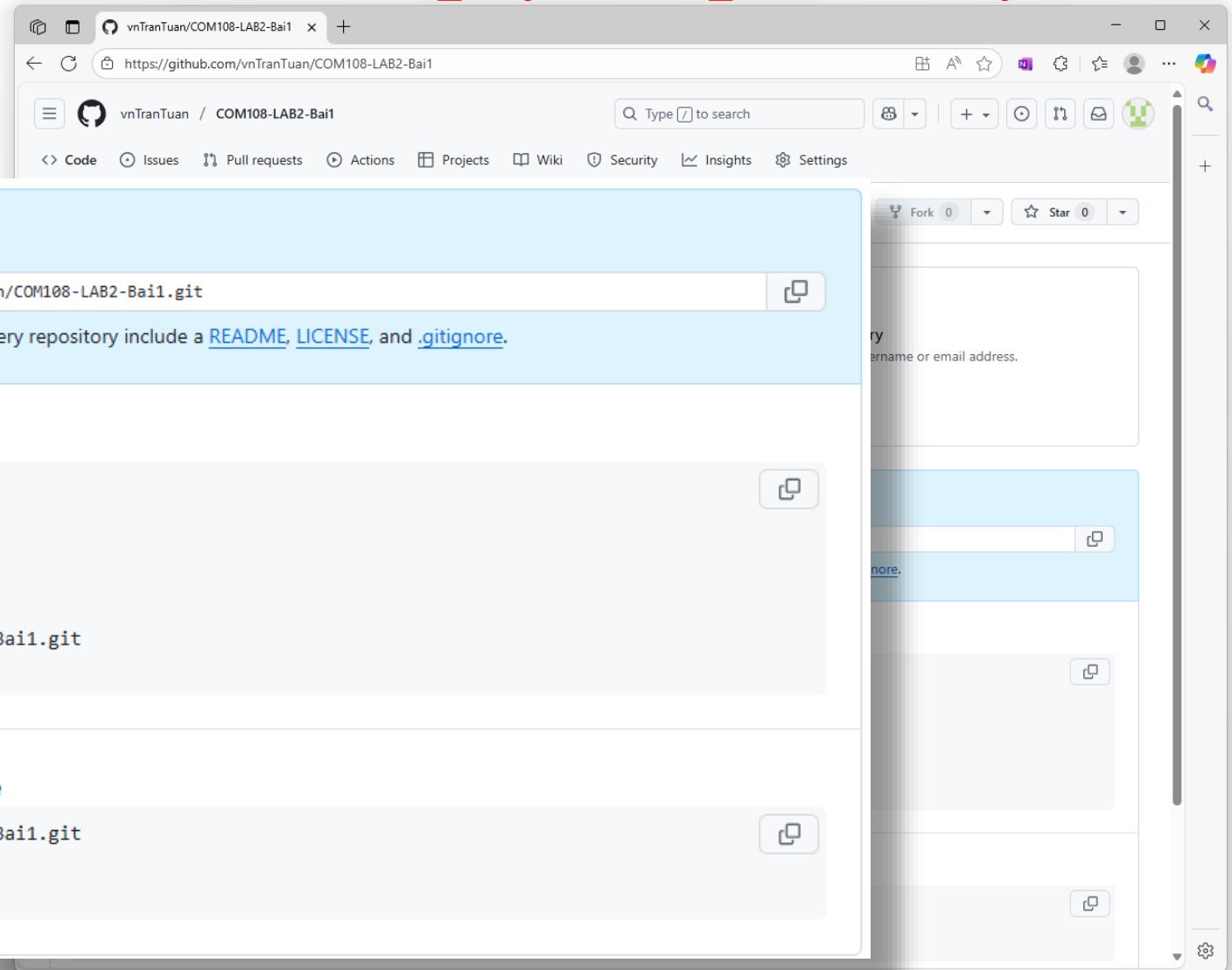
Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# COM108-LAB2-Bai1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/vnTranTuan/COM108-LAB2-Bai1.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/vnTranTuan/COM108-LAB2-Bai1.git
git branch -M main
git push -u origin main
```





# VS Code - Create Project (ví dụ LAB2, bài 1)

The screenshot shows the Visual Studio Code interface with a dark theme. The Explorer sidebar on the left lists a project folder 'LAB2\_BAI1' containing 'bai1.c' and 'README.md'. The main editor area displays the 'bai1.c' file, which includes the following code:

```
#include <stdio.h>
int main() {
    // Chao mung ban den voi FPOLY
    // Mon hoc COM108 - Nhap mon lap trinh
    // LAB2 - bai1
    printf("Hello, FPOLY!\n");
    printf("COM108, LAB2 - bai1\n");
    // Cac lenh nhap vao so A
    // Cac lenh nhap vao so B
    // Cac lenh tinh tong cac so A, va B
    return 0;
}
```

A yellow callout box at the bottom left of the editor area contains the text "Gợi ý thực hiện / Starter Code". The 'README.md' file in the Explorer sidebar is also visible, showing requirements and execution steps. A yellow callout box at the bottom right of the editor area contains the text "Yêu cầu và hướng dẫn thực hiện".

File Explorer:

- EXPLORER
- LAB2\_BAI1
  - bai1.c
  - README.md

Editor Area (Content of bai1.c):

```
#include <stdio.h>
int main() {
    // Chao mung ban den voi FPOLY
    // Mon hoc COM108 - Nhap mon lap trinh
    // LAB2 - bai1
    printf("Hello, FPOLY!\n");
    printf("COM108, LAB2 - bai1\n");
    // Cac lenh nhap vao so A
    // Cac lenh nhap vao so B
    // Cac lenh tinh tong cac so A, va B
    return 0;
}
```

Editor Area (Content of README.md):

```
YÊU CẦU
Xây dựng chương trình cộng / trừ (+/-) 2 số
Input : Nhập vào từ bàn phím 2 số
Output: Hiển thị ra màn hình tổng, hiệu của 2 số

HƯỚNG DẪN THỰC HIỆN
1. Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
2. Dùng lệnh scanf để nhập từ bàn phím
3. Dùng lệnh printf để hiển thị nội dung ra màn hình
```

Bottom Status Bar:

Gợi ý thực hiện / Starter Code      Yêu cầu và hướng dẫn thực hiện

Ln 26, Col 1   Spaces: 4   UTF-8   CRLF   {} C   Go Live   Win32   Continue



# VS Code – Git Initialize Repository

The folder currently open doesn't have a Git repository. You can initialize a repository which will enable source control features powered by Git.

**Initialize Repository** (button 1)

Learn more about how to use Git and source control in VS Code [read our docs](#).

You can directly publish this folder to a GitHub repository. Once published, you'll have access to source control features powered by Git and GitHub.

**Publish to GitHub** (button 2)

`bai1.c`

```
1 #include <stdio.h>
2
3 int main() {
4     // Chao mung ban den voi FPOLY
5     // Mon hoc COM108 - Nhap mon lap trinh
6     // LAB2 - bai1
7     printf("Hello, FPOLY!\n");
8     printf("COM108, LAB2 - bai1\n");
9
10    // Cac lenh nhap vao so A
11
12
13
14
15    // Cac lenh nhap vao so B
16
17
18
19
20    // Cac lenh tinh tong cac so A, va B
21
22
23
24    return 0;
25 }
26
```

`README.md`

```
1 YÊU CẦU
2 Xây dựng chương trình cộng / trừ (+/-) 2 số
3 Input : Nhập vào từ bàn phím 2 số
4 Output: Hiển thị ra màn hình tổng, hiệu của
2 số
5
6
7 HƯỚNG DẪN THỰC HIỆN
8 1. Khai báo các biến số A, B và các kết quả
Tổng, Hiệu của 2 số
9 2. Dùng lệnh scanf để nhập từ bàn phím
10 3. Dùng lệnh printf để hiển thị nội dung ra
màn hình
11
```

File Edit Selection View Go Run ...

LAB2\_Bai1

...

0 0 △ 0

Ln 26, Col 1 Spaces: 4 UTF-8 CRLF {} C ⚙ Go Live Win32 ✓ Continue



# VS Code – Git Commit changes

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a repository named "LAB2\_Bai1".
- Source Control:** Shows a commit message: "LAB2, Bài 1 Hướng dẫn và Starter Code".
- Changes:** A commit dialog is open with the message "✓ Commit".
- File Status:** The file "bai1.c" has 2 changes (marked with a circled "3") and is staged for commit (marked with a circled "4"). The file "README.md" has 2 unstaged changes (marked with a circled "2") and is unstaged (marked with a circled "U").
- Code Editor:** Displays the content of "bai1.c".
- Output:** Shows the requirements for the lab exercise.

```
#include <stdio.h>

int main() {
    // Chao mung ban den voi FPOLY
    // Mon hoc COM108 - Nhap mon lap trinh
    // LAB2 - bai1
    printf("Hello, FPOLY!\n");
    printf("COM108, LAB2 - bai1\n");

    // Cac lenh nhap vao so A

    // Cac lenh nhap vao so B

    // Cac lenh tinh tong cac so A, va B

    return 0;
}
```

**Requirements:**

- Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
- Dùng lệnh scanf để nhập từ bàn phím
- Dùng lệnh printf để hiển thị nội dung ra màn hình



# VS Code – Git Commit changes

The screenshot shows the Visual Studio Code interface with a dark theme. On the left, the Source Control sidebar is open, showing a repository named 'LAB2\_Bai1' with two staged changes: 'bai1.c' and 'README.md'. A prominent blue button labeled '✓ Commit' is visible. The main editor area displays a C program named 'bai1.c' with the following code:

```
1 #include <stdio.h>
2
3 int main() {
4     // Chao mung ban den voi FPOLY
5     // Mon hoc COM108 - Nhap mon lap trinh
6     // LAB2 - bai1
7     printf("Hello, FPOLY!\n");
8     printf("COM108, LAB2 - bai1\n");
9
10    // Cac lenh nhap vao so A
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25     return 0;
26 }
```

To the right of the code, there is a large block of Vietnamese text describing the program's purpose and usage. A modal dialog box titled 'Visual Studio Code' is displayed in the center, containing the message: 'There are no staged changes to commit. Would you like to stage all your changes and commit them directly?'. It includes four buttons: 'Yes' (highlighted with a red circle containing the number 5), 'Always', 'Never', and 'Cancel'. The status bar at the bottom shows the file path 'main\*' and other details.



# VS Code – Git Publish

The screenshot shows the VS Code interface with the Git Publish dialog open. The dialog provides options for quick setup, creating a new repository on the command line, or pushing an existing repository from the command line. Step 6 is highlighted in both sections.

**Quick setup — if you've done this kind of thing before**

**...or create a new repository on the command line**

```
echo "# COM108-LAB2-Bai1" >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git branch -M main  
git remote add origin https://github.com/vnTranTuan/COM108-LAB2-Bai1.git  
git push -u origin main
```

**...or push an existing repository from the command line**

```
git remote add origin https://github.com/vnTranTuan/COM108-LAB2-Bai1.git  
git branch -M main  
git push -u origin main
```

6

6



# VS Code – Git Publish

The screenshot shows the Visual Studio Code interface with the following details:

- SOURCE CONTROL:** Shows a repository named "LAB2\_Bai1" with a "main" branch.
- FILES:** Displays "bai1.c" and "README.md".
- TERMINAL:** The tab is highlighted with a yellow circle and the number 6. The command "git branch -M main" is visible in the terminal.
- OUTPUT:** Shows a powershell session.
- STATUS BAR:** Shows the current file path: E:\WorkFolder\2025\COM108\LAB2\LAB2\_Bai1> and the command git branch -M main.

Chạy lần lượt các lệnh sau, với <username> đã đăng nhập

```
git branch -M main  
git remote add origin https://github.com/<username>/COM108-LAB2-Bai1.git  
git push -u origin main
```



# VS Code Git Publish

The screenshot shows the VS Code interface with the following details:

- Source Control:** A commit message is being typed: "LAB2, Bài 1 Hướng dẫn và Starter Code".
- Terminal:** The output of a git push command is shown, indicating the repository is being pushed to GitHub.

```

File Edit Selection View ... < > LAB2_Bai1
File Edit Selection View ... < > LAB2_Bai1
SOURCE CONTROL ...
REPOSITORIES
  LAB2_E main
  Changes
    Message (Ctrl+Enter to commit...) Commit
  GRAPH ...
LAB2, Bài 1 Hướng dẫn v... @ main
  
```

```

PS E:\WorkFolder\2025\COM108\LAB2\LAB2_Bai1>
PS E:\WorkFolder\2025\COM108\LAB2\LAB2_Bai1>
M108-LAB2-Bai1.git
PS E:\WorkFolder\2025\COM108\LAB2\LAB2_Bai1>
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 762 bytes | 762.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/vnTranTuan/COM108-LAB2-Bai1.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS E:\WorkFolder\2025\COM108\LAB2\LAB2_Bai1>
  
```

The screenshot shows a GitHub repository page for "vnTranTuan/COM108-LAB2-Bai1". The repository has 1 commit, 1 branch, and 0 tags. The README file contains the following content:

```

YÊU CẦU Xây dựng chương trình cộng / trừ (+/-) 2 số Input : Nhập vào từ bàn phím 2 số Output: Hiển thị ra màn hình tổng, hiệu của 2 số

HƯỚNG DẪN THỰC HIỆN

1. Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
2. Dùng lệnh scanf để nhập từ bàn phím
3. Dùng lệnh printf để hiển thị nội dung ra màn hình
  
```

A yellow callout box highlights the text in the README file with the text: "Nội dung LAB2, Bài 1 đã được Publish thành công trên website GitHub".

vnTranTuan / COM108-LAB2-Bai1

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

vnTranTuan COM108-LAB2-Bai1 Public Pin Watch Fork Star

main 1 Branch 0 Tags Go to file + Code About

vnTranTuan LAB2, Bài 1 Hướng dẫn và Starter Code d6ae08a · 12 minutes ago 1 Commit

README.md LAB2, Bài 1 Hướng dẫn và Starter Code 12 minutes ago

bai1.c LAB2, Bài 1 Hướng dẫn và Starter Code 12 minutes ago

README

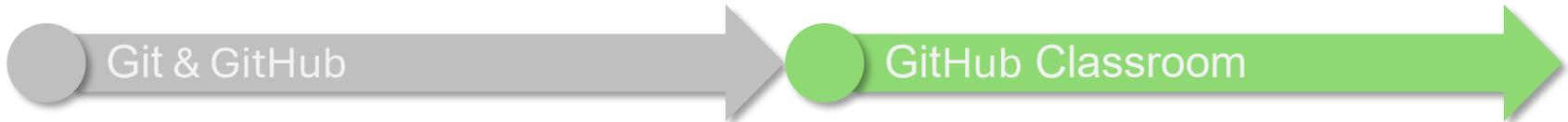
YÊU CẦU Xây dựng chương trình cộng / trừ (+/-) 2 số Input : Nhập vào từ bàn phím 2 số Output: Hiển thị ra màn hình tổng, hiệu của 2 số

HƯỚNG DẪN THỰC HIỆN

- Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
- Dùng lệnh scanf để nhập từ bàn phím
- Dùng lệnh printf để hiển thị nội dung ra màn hình

Nội dung LAB2, Bài 1  
đã được Publish thành công  
trên website GitHub

# Tóm tắt



- ✓ 1. Cài đặt Git, và
  - ✓ 2. **Sign up / Đăng ký**  
GitHub account
  - ✓ 3. **Clone repository:** download  
nội dung từ một GitHub Repository
  - ✓ 4. **Create repository / Tạo**  
một Empty GitHub Repository
  - ✓ 5. **Publish repository / upload**  
nội dung lên GitHub Repostiory
- Create classroom (Tạo lớp)
  - Create assignment, starter code

BẤM VÀO ĐÂY

ĐỂ CHUYỂN ĐỀN NỘI DUNG  
GITHUB CLASSROOM



B



GitHub classroom

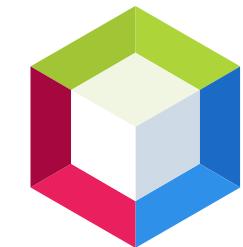
- Create classroom
- Owner, Admin, Teacher, Teacher Assistant (TA)
- Student roster
- Assignment
- Grading

*Các trang tiếp theo  
tóm tắt cách thực hiện  
những thao tác Git cơ bản  
với*

*NetBeans IDE*

*IntelliJ IDE*

*Eclipse IDE*

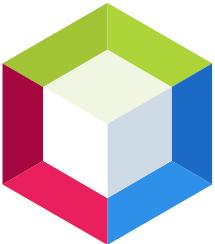


# NetBeans IDE C/C++ Programming

The screenshot shows the Apache NetBeans IDE 12.4 interface. On the left is the 'Start Page' with a 'Learn & Discover' sidebar containing links like 'Take a Tour', 'Try a Sample Project', 'What's New', and 'Community Corner'. In the center is an 'About' dialog box displaying the Apache NetBeans logo and version information. A yellow callout box highlights the version as 'Apache NetBeans IDE 12.4 Java: 11 Windows 11'. At the bottom, a white box provides detailed system and user directory information.

**Product Version:** Apache NetBeans IDE 12.4  
**Updates:** [Updates available](#) to version [NetBeans 8.2 Patch 2](#)  
**Java:** 11.0.27; Java HotSpot(TM) 64-Bit Server VM 11.0.27+8-LTS-232  
**Runtime:** Java(TM) SE Runtime Environment 11.0.27+8-LTS-232  
**System:** Windows 11 version 10.0 running on amd64; UTF-8; en\_US (nb)  
**User directory:** C:\Users\TuanTA\AppData\Roaming\NetBeans\12.4  
**Cache directory:** C:\Users\TuanTA\AppData\Local\NetBeans\Cache\12.4

Apache NetBeans IDE 12.4  
Java: 11  
Windows 11



# NetBeans IDE C/C++ Programming

The screenshot shows the Apache NetBeans IDE 12.4 interface. On the left, the main window displays the "Learn & Discover" section with the NetBeans logo. A yellow callout bubble with a black border and a yellow arrow points from the text "Install Plugin C/C++" to the "C/C++" plugin entry in the Plugins dialog. The Plugins dialog is open, showing the "Installed (12)" tab selected. The "C/C++" plugin is listed under the "Available Plugins (61)" tab, highlighted with a blue selection bar. The right panel of the Plugins dialog provides details about the "C/C++" plugin, including its version (1.3), source (Apache NetBeans IDE 12.4), and a brief description: "A temporary lightweight C/C++ support. The editing features require ccls to be installed." It also mentions the "Module installed: CPPLite Kit".

Apache NetBeans IDE 12.4

File Edit View Navigate Source Refactor Run Debug Profile Team

Start Page x

Apache NetBeans IDE

Learn & Discover

Install Plugin  
C/C++

Plugins

Updates (1) Available Plugins (61) Downloaded Installed (12) Settings

Show details

Search:

Select	Name	Category	Active
<input type="checkbox"/>	HTML5	Features	
<input type="checkbox"/>	User Installed Plugins	Features	✓
<input type="checkbox"/>	Java SE	Features	
<input type="checkbox"/>	Tools	Features	
<input type="checkbox"/>	PHP	Features	
<input type="checkbox"/>	JavaFX 2	Features	
<input type="checkbox"/>	Groovy	Features	
<input type="checkbox"/>	Java Web and EE	Features	
<input type="checkbox"/>	Developing NetBeans	Features	
<input type="checkbox"/>	C/C++	Features	
<input type="checkbox"/>	Service Registry	Features	
<input type="checkbox"/>	Base IDE	Features	

**C/C++**

Version: 1.3  
Source: Apache NetBeans IDE 12.4

**Plugin Description**

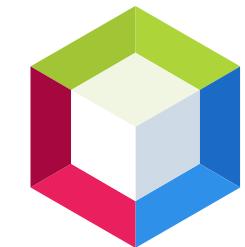
CPPLite Kit

A temporary lightweight C/C++ support. The editing features require ccls to be installed.

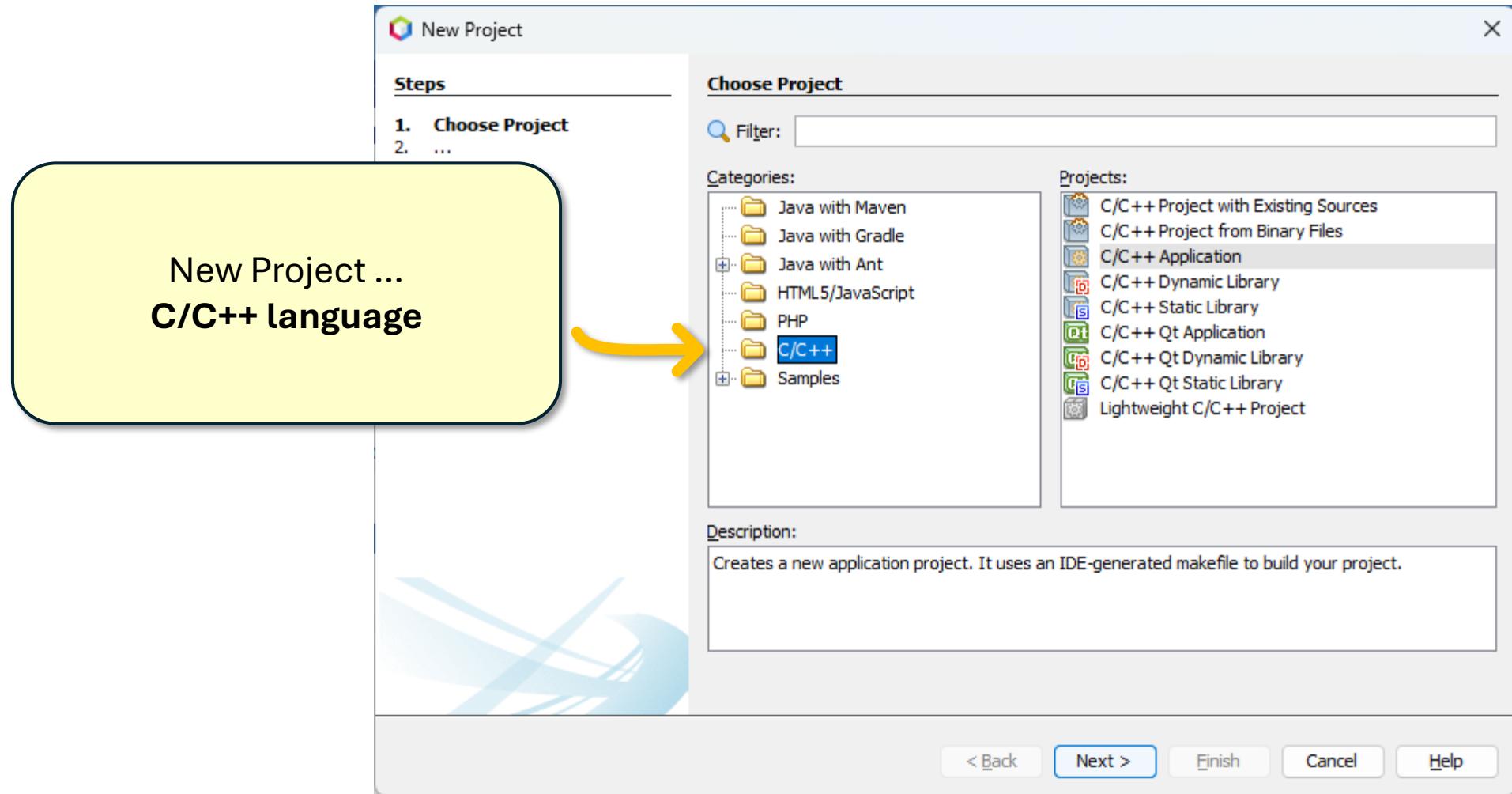
Module installed:  
CPPLite Kit

Activate Deactivate Uninstall

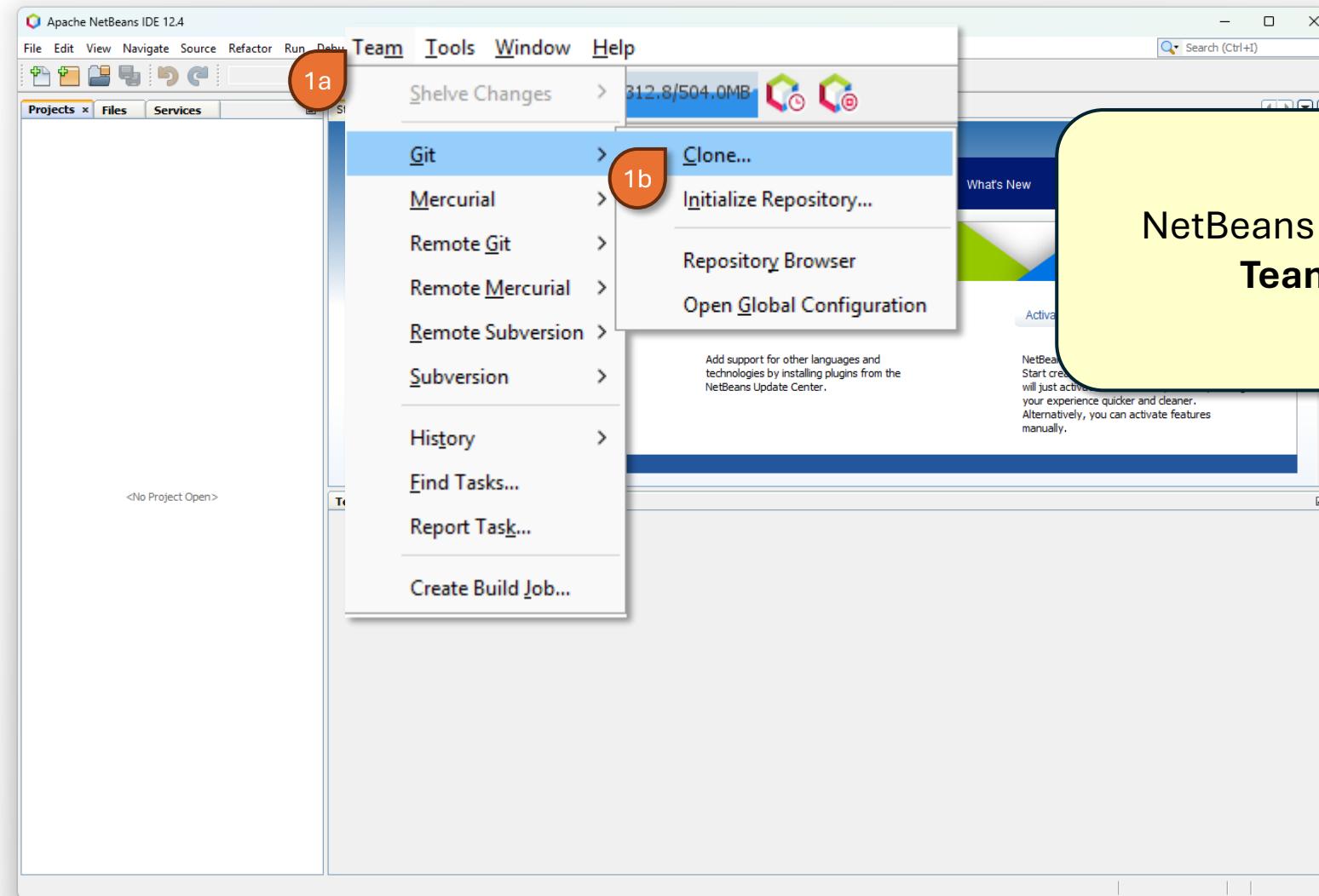
Close Help



# NetBeans IDE C/C++ Programming

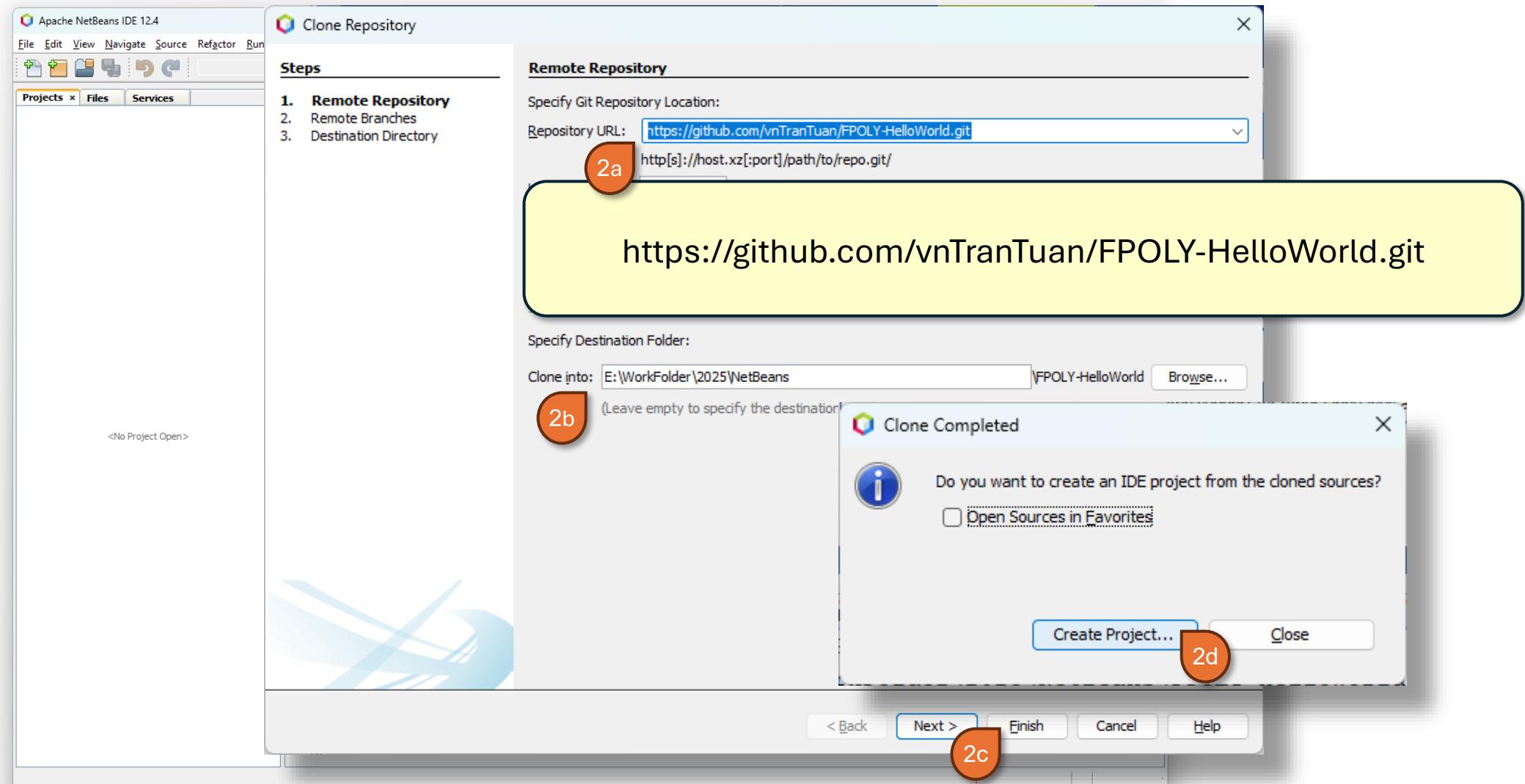


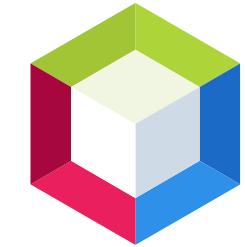
# NetBeans **Clone** Hello Project



NetBeans application, và chọn ...  
Team \ Git \ Clone ...

# NetBeans Clone Hello Project





# NetBeans Clone Hello Project

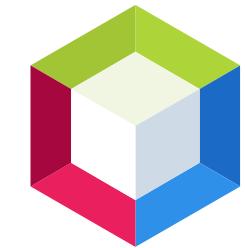
The screenshot shows the Apache NetBeans IDE 12.4 interface. The title bar reads "FPOLY-HelloWorld - Apache NetBeans IDE 12.4". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has various icons for file operations. The Projects tab in the left sidebar shows a project named "FPOLY-HelloWorld" containing ".vscode", "hello.c", and "hello.exe". The Files tab shows "Important Files". The main editor window displays the "hello.c" file with the following code:

```
#include<stdio.h>
int main() {
    printf("Hello, World!\n");
    printf("Hello, COM108 FPOLY");
    return 0;
}
```

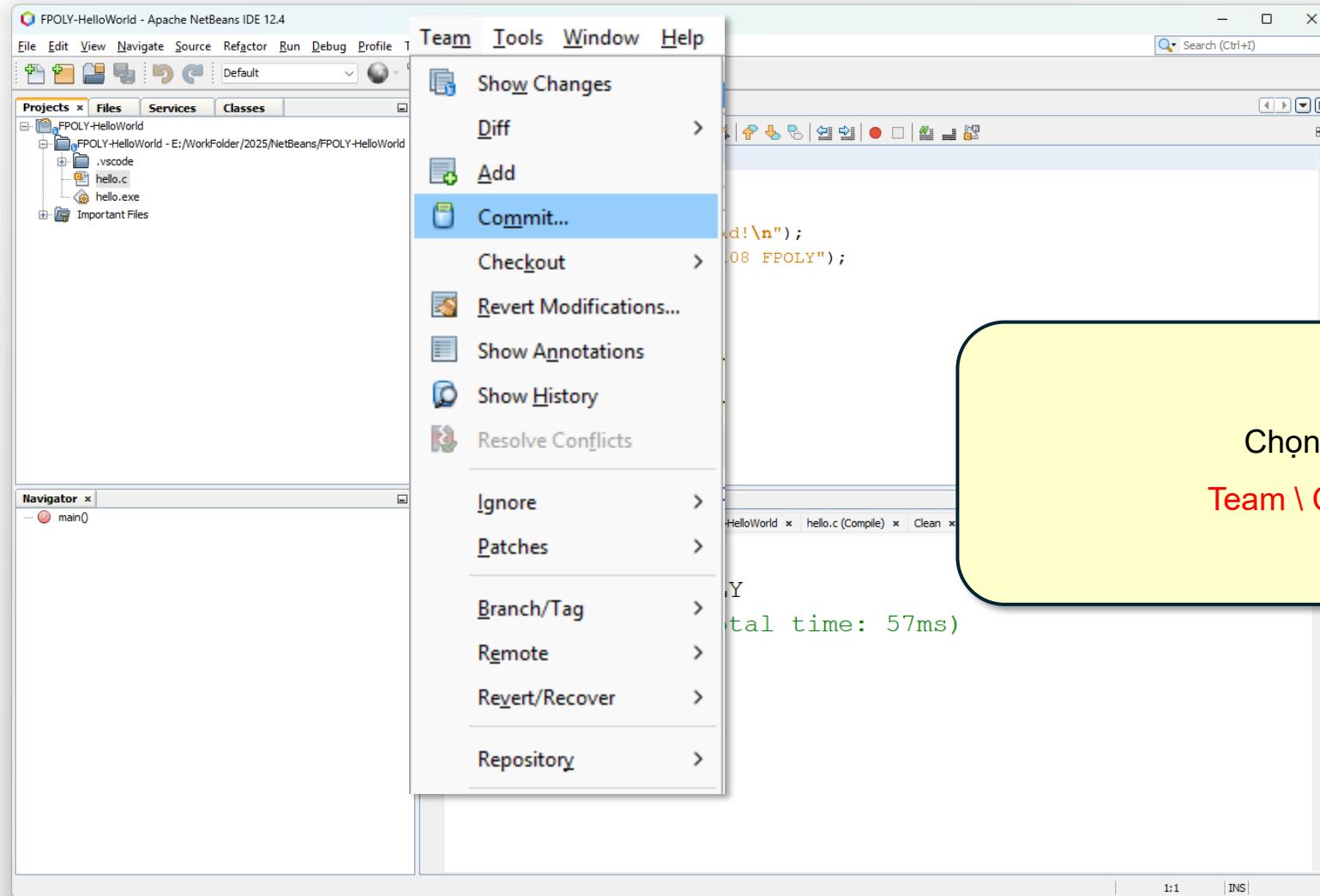
The Output tab at the bottom shows the results of running the program:

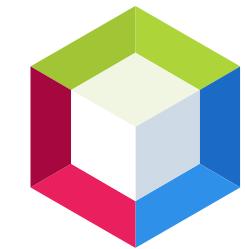
```
Hello, World!
Hello, COM108 FPOLY
RUN SUCCESSFUL (total time: 57ms)
```

Project **đã clone**  
và kết quả chạy chương trình  
với NetBeans IDE

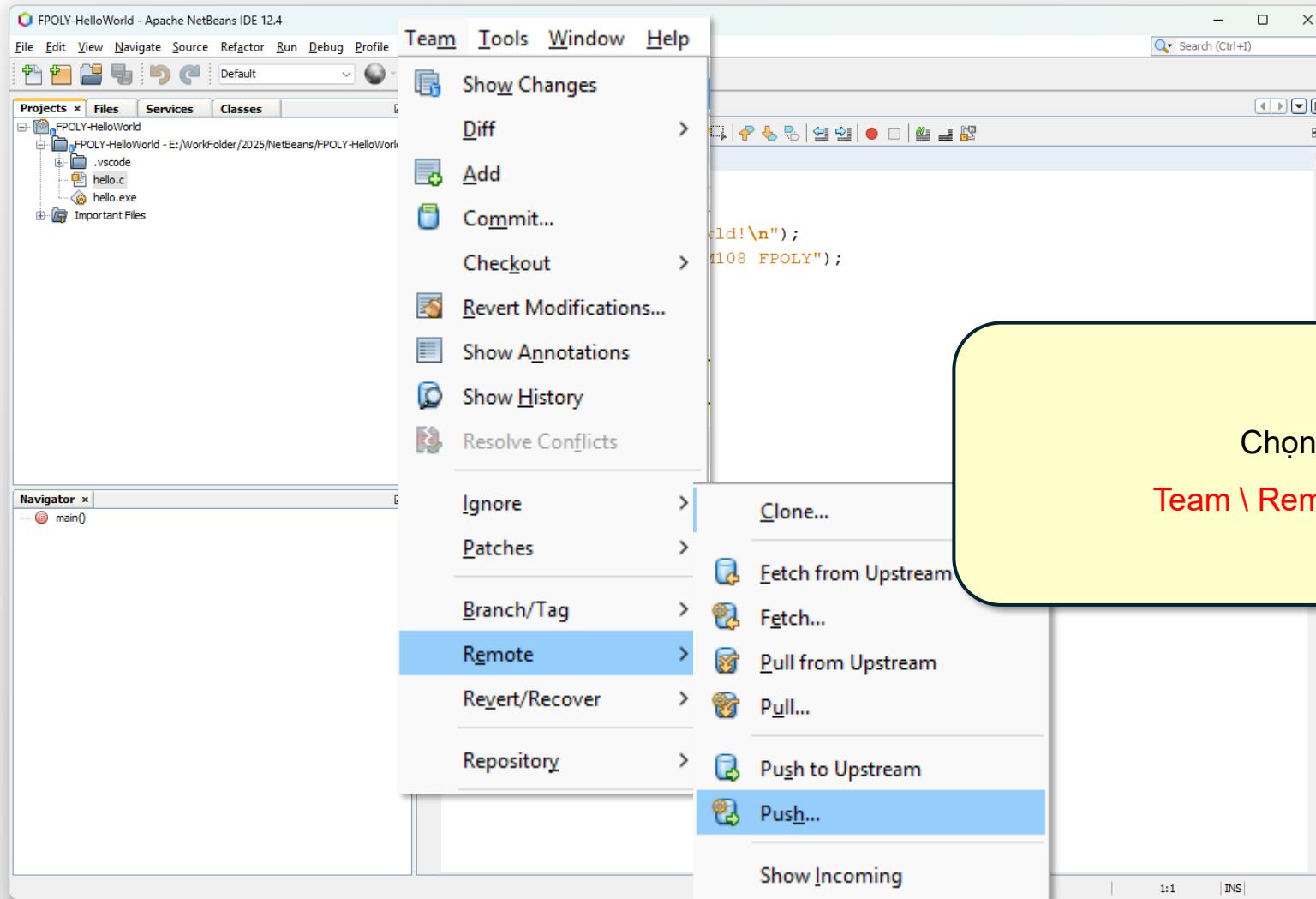


# NetBeans Commit changes



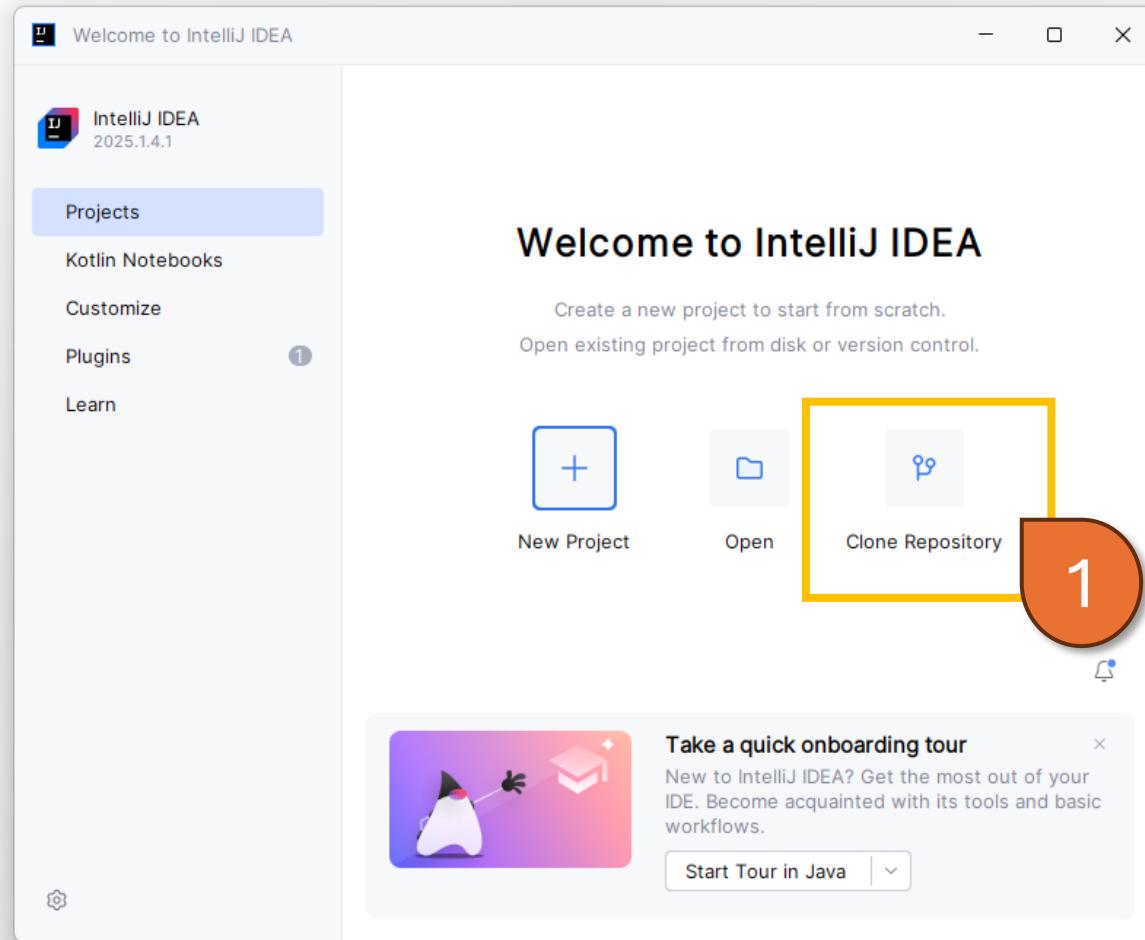


# NetBeans Push changes



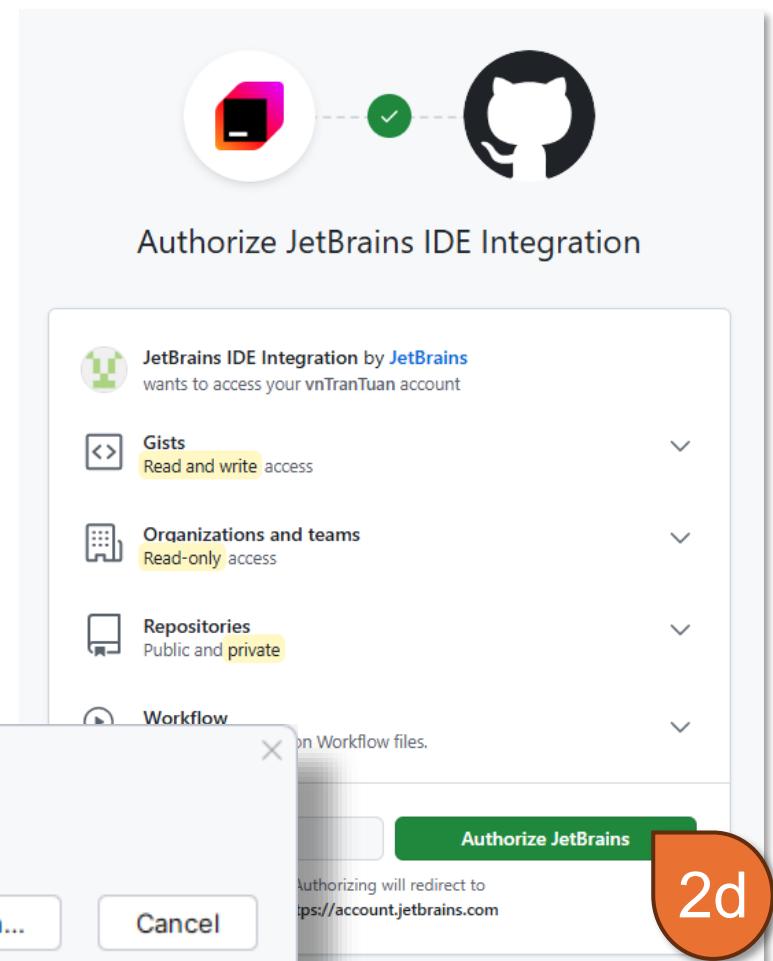
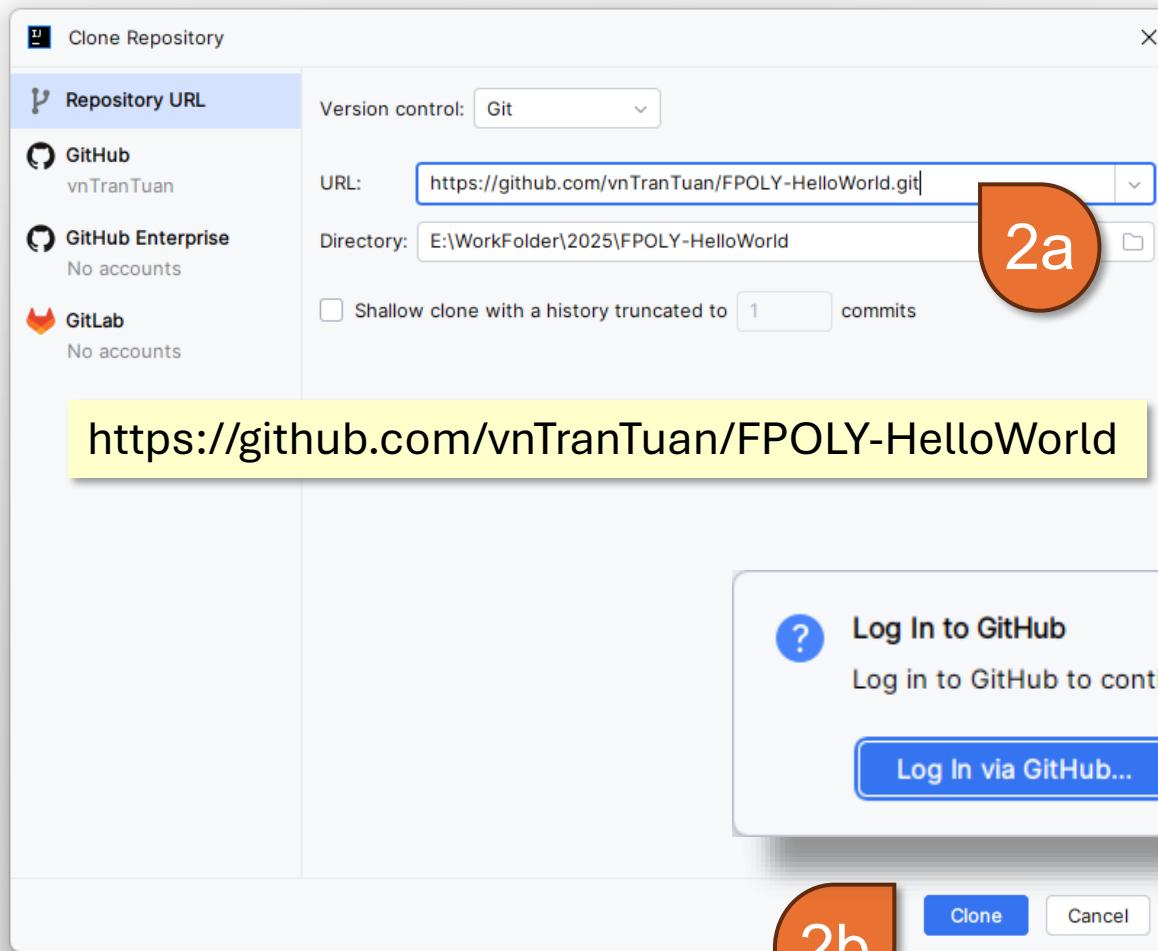


# IntelliJ **Clone** Hello Project





# IntelliJ **Clone** Hello Project





# IntelliJ **Clone** Hello Project

The screenshot shows the IntelliJ IDEA interface with a cloned C++ project named "FPOLY-HelloWorld". The project structure on the left includes a ".vscode" folder and files "hello.c" and "hello.exe". The code editor window displays the "hello.c" file with the following content:

```
#include<stdio.h>
int main() {
    printf("Hello, World!");
    return 0;
}
```

The "Output" tab in the bottom-left corner shows the compilation and execution process:

```
% gcc hello.c -o hello.exe
Compilation complete with exit code 0
Compilation succeeded.
Saved compiled executable as E:/WorkFolder/2025/FPOLY-HelloWorld/hello.exe

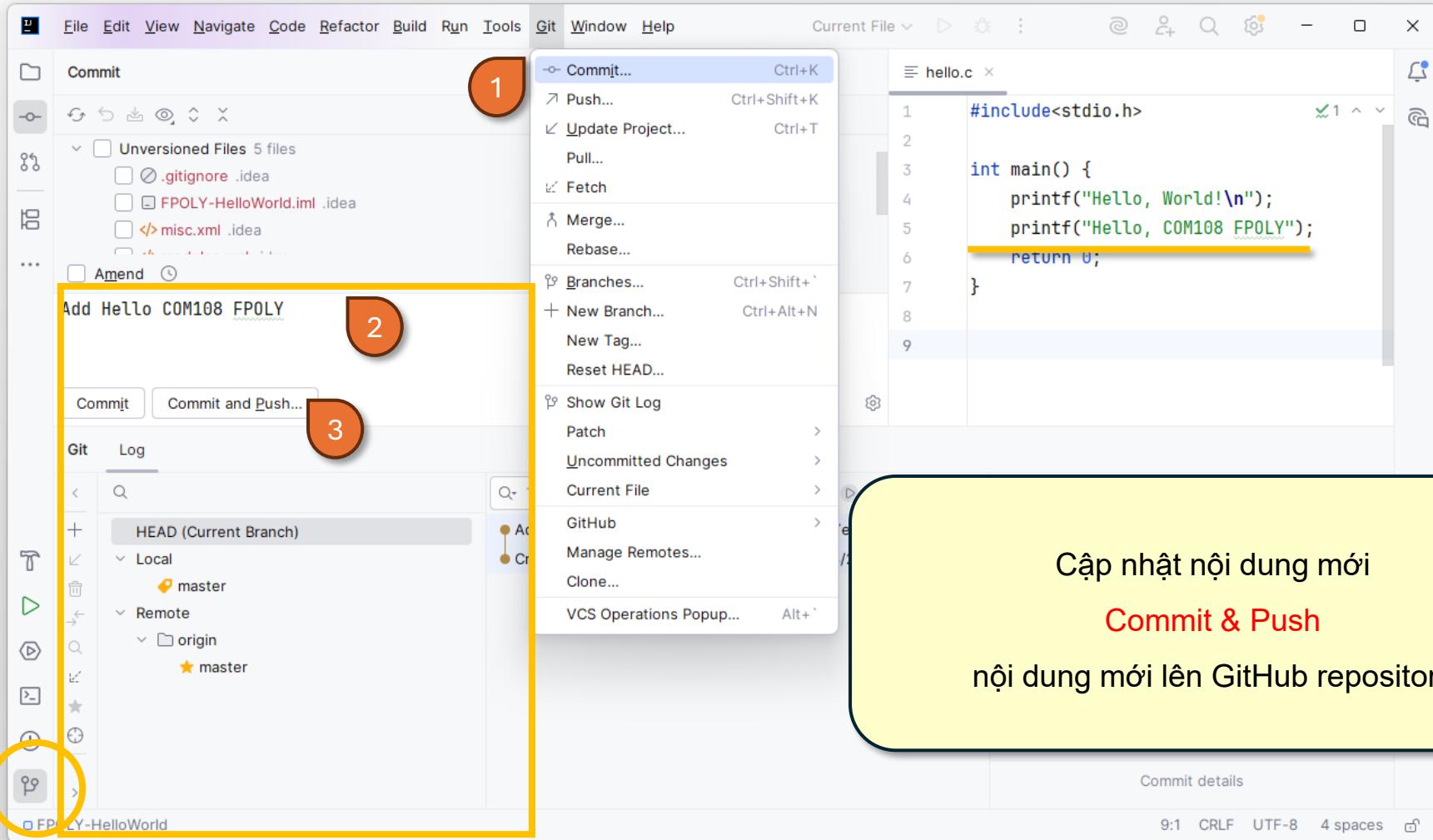
% E:/WorkFolder/2025/FPOLY-HelloWorld/hello.exe
Hello, World!
Program finished with exit code: 0
```

A yellow callout box on the right side of the interface contains the text:

Project **đã clone**  
và kết quả chạy chương trình  
với IntelliJ IDE



# IntelliJ Commit & Push changes





# Eclipse C/C++ programming

The screenshot shows the Eclipse Installer interface with a search bar at the top. Below it, there are several listed options:

- Eclipse IDE for Java Developers**: The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Maven and Gradle integration.
- Eclipse IDE for Enterprise Java and Web Developers**: Tools for developers working with Java and Web applications, including a Java IDE, tools for JavaScript, TypeScript, JavaServer Pages and Faces, YAML, Markdown, Web Services, JPA and Data Tools, Maven and Gradle, Git, and more.
- Eclipse IDE for C/C++ Developers**: An IDE for C/C++ developers.
- Eclipse IDE for Embedded C/C++ Developers**: An IDE for Embedded C/C++ developers. It includes managed cross build plug-ins (Arm and RISC-V) and debug plug-ins (SEGGER J-Link, OpenOCD, pyocd, and QEMU), plus a number of templates to create ready to run blinky projects.
- Eclipse IDE for PHP Developers**: The essential tools for any PHP developer, including PHP language support, Git client and editors for JavaScript, TypeScript, HTML, CSS and more. Click here to raise an issue with Eclipse PHP Development Tools. Click here to raise an issue with the Eclipse Web Tools Platform. Maintainers will move opened issues to...
- Eclipse IDE for Eclipse Committers**: Package suited for development of Eclipse itself at Eclipse.org; based on the Eclipse Platform adding PDE, Git, Marketplace Client, source code management, and developer documentation.
- Eclipse IDE for Java and DSL Developers**: The essential tools for Java and DSL developers, including a Java Xtend IDE, a DSL Framework (Xtext), a Git client, XML Editor, and Maven integration.

Sử dụng Eclipse installer

Eclipse IDE for C/C++ developers



# Eclipse **Clone** Hello Project (C/C++)

The screenshot shows the Eclipse IDE interface. On the left, the 'Git Repositories' view is open, displaying options to 'Add an existing local Git repository', 'Clone a Git repository', and 'Create a new local Git repository'. A message in the view states: 'Could not create the view: org.eclipse.jdt.ui.PackageExplorer'. In the center, the 'Clone Git Repository' dialog is displayed. It has two tabs: 'Source Git Repository' (selected) and 'Clone Git Repository'. The 'Source Git Repository' tab contains fields for 'Location': 'URI:' (github.com/vnTranTuan/FPOLY-HelloWorld.git), 'Host:' (github.com), and 'Repository path:' (/vnTranTuan/FPOLY-HelloWorld.git). Below these are 'Connection' settings for 'Protocol:' (https) and 'Port:' (empty). Under 'Authentication', it shows 'User:' (vnTranTuan) and 'Password:' (redacted). A checkbox 'Store in Secure Store' is also present. A yellow callout box points to the 'Password:' field with the text: 'Authentication Password là PAT – personal access token (classic) được tạo tại mục Developer Settings'.

Authentication Password  
là PAT – personal access token (classic)  
được tạo tại mục Developer Settings



# Eclipse **Clone** Hello Project (C/C++)

The screenshot shows the Eclipse IDE interface with two open dialog boxes for cloning a Git repository.

**Left Dialog: Branch Selection**

- Header: Clone Git Repository
- Message: Could not create the view org.eclipse.jdt.ui.Package
- Section: Branch Selection
- Description: Select branches to clone from remote repository. Remote tracking branches will be created to track updates for these branches in the remote repository.
- List: Branches of https://github.com/vnTranTuan/FPOLY-HelloWorld.git:  
master (selected)
- Buttons: Select All, Deselect All
- Section: Tag fetching strategy
  - When fetching a commit, also fetch its tags (selected)
  - Fetch all tags and their commits
  - Don't fetch any tags

**Right Dialog: Local Destination**

- Header: Clone Git Repository
- Section: Local Destination
- Description: Configure the local storage location for FPOLY-HelloWorld.
- Section: Destination
  - Directory: E:\WorkFolder\2025\Eclipse\FPOLY-HelloWorld (Browse button)
  - Initial branch: master
  - Clone submodules (checkbox)
- Section: Configuration
  - Remote name: origin
- Section: Projects
  - Import all existing Eclipse projects after clone finishes (checkbox)
- Section: Working sets
  - Add project to working sets (checkbox)
  - New... (button)
  - Select... (button)



# Eclipse **Clone** Hello Project (C/C++)

The screenshot shows the Eclipse IDE interface with a C/C++ project named "LAB2\_b1". The "main.c" file contains the following code:

```
1 #include<stdio.h>
2
3 int main() {
4     printf("Hello, World!\n");
5     printf("Hello, COM108 FPOLY");
6     return 0;
7 }
8
9 
```

The "Console" view shows the output of the program:

```
<terminated> (exit value: 0) LAB2_b1 Debug [C/C++ Application]
Hello, World!
Hello, COM108 FPOLY
```

A yellow callout bubble on the right side of the interface contains the text:

Project **đã clone**  
và kết quả chạy chương trình  
với Eclipse IDE

# Nội dung



**B**

## GitHub classroom

- Create classroom
- Owner, Admin, Teacher, Teacher Assistant (TA)
- Student roster
- Assignment
- Grading



# Setup Git Organization



**Before setting up GitHub Classroom, you'll need an authorized organization in your GitHub account.**

GitHub Classroom uses organization accounts to manage permissions, administration, and security for classrooms.



## Need an organization?

Create a free Team for Open Source organization account. Then you'll need to grant access to Classroom by following the next step.

[Create an organization](#)



## Already have an organization?

Grant access to the organization you'd like to use, then come back here. Just click the "Grant" button on the lower right on the settings page.

[Go grant access](#)



# Create GitHub Classroom

Danh sách các Classroom lưu tại địa chỉ

<https://classroom.github.com/classrooms>

The screenshot shows a web browser window titled "Your Classrooms" at the URL <https://classroom.github.com/classrooms>. The page displays a list of existing classrooms. At the top right, there are buttons for "View: Active" (with a dropdown arrow), "Sort by: Newest first" (with a dropdown arrow), and a green "+ New classroom" button. Below this, a list of classrooms is shown:

Classroom Name	Description
COM108-UDPM-classroom-class-SU25-01	COM108-UDPM LAB2 Starter assignment



# Create GitHub Classroom

**Organization**  
Các classroom sẽ được tổ chức  
theo các Organization

**Classroom name**  
Đặt tên Classroom là duy nhất

The screenshot shows a web browser window titled "New Classroom: Name Your Classroom". The URL in the address bar is <https://classroom.github.com/classrooms/227212486-com108-udpm-classroom-8decf9/setup>. The page header includes the GitHub Classroom logo and the GitHub Education link. The main content area is titled "New Classroom" with the sub-instruction "Name your Classroom". A text input field contains the value "COM108-UDPM-classroom". Below the input field is a note: "Using your course name and section can help students identify your classroom." At the bottom right is a green button labeled "Create classroom".



# Student roster

**Danh sách định danh sinh viên**  
Mỗi định danh viết trên từng dòng

Ví dụ định danh : có thể là

- Mã sinh viên  
hoặc
- Email sinh viên

Tính năng bổ sung

- Đồng bộ từ Google classroom
- Upload từ file CSV / TXT

The screenshot shows the GitHub Classroom interface for managing a student roster. The main view displays a list of students imported from Google Classroom, including TuanAPC and TuanTA71. Below this, a 'Danger zone' section provides a warning about deleting the roster. A modal window titled 'Add students to your roster' is open, containing options to sync from Google Classroom or create the roster manually. The manual creation section includes a text input field with the names 'Tuan APC' and 'TuanTA71' entered. To the right, there are buttons for updating students, downloading files, and managing GitHub accounts.



# Assignments (các bài Lab / Assignment)

Tạo / New Assignment  
Giảng viên tạo Assignment

+ New assignment

The screenshot shows the GitHub Classroom dashboard for the classroom 'COM108-UDPM-classroom-class-SU25-01'. The 'Assignments' tab is selected, indicated by a red circle with the number 1. A green button labeled '+ New assignment' is visible at the top right. Below the tabs, there is a message: 'Get verified to get Codespaces Education benefit.' with a 'Get verified' button. The main content area displays a single 'Starter assignment' listed under 'Active' assignments. A callout box with a black border and yellow background contains the text: 'GitHub classroom có sẵn một assignment mẫu, gọi là **Starter Assignment**'.

# Assignments (các bài Lab / Assignment)



+ New assignment

1 Nhập tên bài Assignment

2 Thời hạn thực hiện

Deadline

mm/dd/yyyy --::--

August 2025 ▾    ↑ ↓

11	00	PM
12	01	AM
01	02	
02	03	
03	04	
04	05	
05	06	

Su Mo Tu We Th Fr Sa

27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Clear Today

3 Individual or group assignment

Individual assignment

Individual assignment

Group assignment

Let's set up the basics for your assignment.

Assignment creation steps

- 1 Assignment basics
- 2 Starter code and environment
- 3 Grading and feedback
- 4 Deadline

Assignment title \*

Student assignment repositories will have the prefix: lab2-bai-1

Deadline

mm/dd/yyyy --::--

(Optional) If left blank, there will be no deadline. Date format: 12/31/2022, 11:59 PM

Individual or group assignment

Individual assignment

Cancel Continue

# Assignments (các bài Lab / Assignment)



+ New assignment

## Starter code and environment

- 5 Tìm và chọn repository  
Ví dụ  
**COM108-LAB2-Bai1**

- 6 Continue

Add your starter code and choose an optional online IDE.

**Assignment creation steps**

- ✓ Assignment basics
- Starter code and environment**
- Grading and feedback

**Add a repository to give students starter code**

Your assignment will be created with empty student repositories if you don't add starter code.

The starter code repository must be a template; a copy will be created in your organization.

Accepted assignments will be forks of the copy created in your organization. If you make changes to the copy created in your organization, you can press the "Sync assignments" button on the assignment dashboard to open Pull Requests in all student assignment repositories with the changes.

**Find a GitHub repository**

Q COM108-LAB2

vnTranTuan/COM108-LAB2-Bai1  
Môn học COM108, Repository của LAB2, bài 1

vnTranTuan/COM108-LAB2-Bai1-DAP-AN  
Môn học COM108, LAB2, Bài 1

Find a GitHub repository

Q COM108-LAB2

vnTranTuan/COM108-LAB2-Bai1  
Môn học COM108, Repository của LAB2, bài 1

vnTranTuan/COM108-LAB2-Bai1-DAP-AN  
Môn học COM108, LAB2, Bài 1

GitHub repository đã tạo ở bước trước

Continue



# Assignments (các bài Lab / Assignment)

+ New assignment

## Starter code and environment

- 5 Tìm và chọn repository  
Ví dụ  
[COM108-LAB2-Bai1](#)

Find a GitHub repository

[vnTranTuan/COM108-LAB2-Bai1](#)  
Môn học COM108, Repository của LAB2, bài 1

[vnTranTuan/COM108-LAB2-Bai1-DAP-AN](#)  
Môn học COM108, LAB2, Bài 1

Có thể tạo sẵn các repository (xem như đề bài)

- Theo mức độ dễ đến khó
- Hoặc, theo mục đích khác của giảng viên

Ví dụ

[COM108-LAB2-Bai1-N1](#)

[COM108-LAB2-Bai1-N2](#)

[COM108-LAB2-Bai1-N3](#)

# Assignments (các bài Lab / Assignment)



+ New assignment

## Starter code and environment

⚠ Starter code repository must be a template so that a copy may be made in your organization

Add your starter code and choose an optional online IDE.

Assignment creation

- ✓ Assignment basics
- Starter code and environment
- Grading and feedback

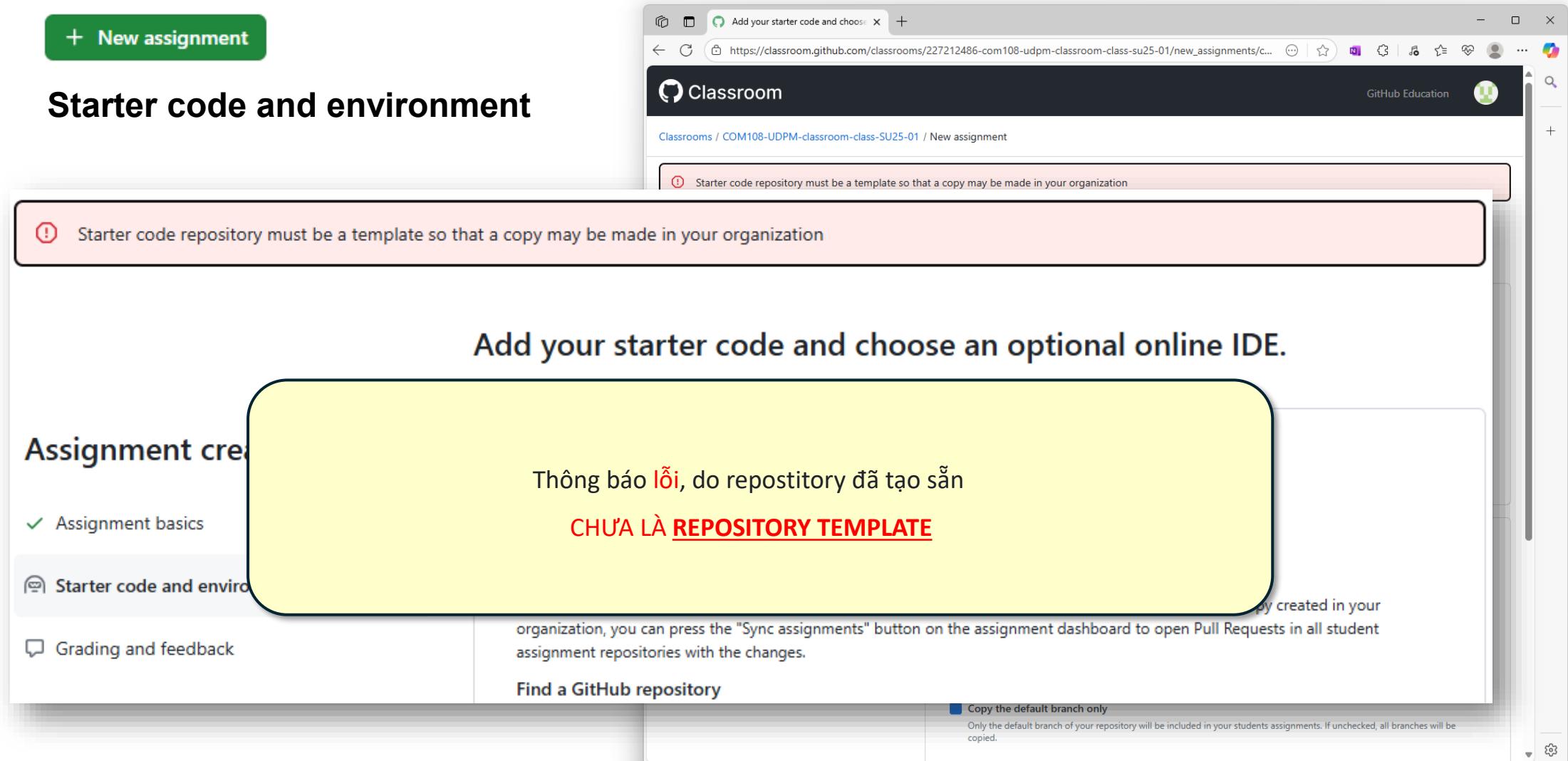
Thông báo lỗi, do repository đã tạo sẵn

CHƯA LÀ REPOSITORY TEMPLATE

If you created in your organization, you can press the "Sync assignments" button on the assignment dashboard to open Pull Requests in all student assignment repositories with the changes.

Find a GitHub repository

Copy the default branch only  
Only the default branch of your repository will be included in your students assignments. If unchecked, all branches will be copied.





# Ví dụ - Setting GitHub Repository Template

The image shows two browser windows side-by-side. The left window displays the main repository page for 'vnTranTuan/COM108-LAB2-Bai1'. The right window shows the 'General' settings for the same repository.

**A:** In the 'General' settings, the 'Template repository' checkbox is checked. A callout bubble highlights this setting, which is described as allowing users to generate new repositories with the same directory structure and files. A link to 'Learn more about template repositories' is provided.

**B:** In the 'General' settings, the 'Default branch' is set to 'main'. A callout bubble highlights this field.

**Left Window (Repository Page):**

- Code:** Shows a commit from 'vnTranTuan' labeled 'LAB2, Bài 1 Hướng dẫn và Starter Code' made 2 hours ago.
- Issues:** Shows a file named 'README.md' with a status of 'LAB2, Bài 1 Hướng dẫn và Start...' and a timestamp of '2 hours'.
- Pull requests:** Shows a file named 'bai1.c' with a status of 'LAB2, Bài 1 Hướng dẫn và Start...' and a timestamp of '2 hours'.
- Actions:** Shows a 'README' section containing instructions for building the program and running it.
- Projects:** Shows a 'YÊU CẦU Xây dựng chương trình cộng / trừ (+/-) 2 số Input : Nhập vào từ bàn phím 2 số Output: Hiển thị ra màn hình tổng, hiệu của 2 số'.
- Wiki:** Shows a 'HƯỚNG DẪN THỰC HIỆN' section with steps 1, 2, and 3.



# Ví dụ - Setting GitHub Repository Template

The image shows two side-by-side GitHub repository pages for 'vnTranTuan / COM108-LAB2-Bai1'.

**Left Side (Standard Repository):**

- Title:** COM108-LAB2-Bai1 (Public)
- Code tab:** main · 1 Branch · 0 Tags
- Files:**
  - vnTranTuan · LAB2, Bài 1 Hướng dẫn và Starter Code · d6ae08a · 2 hours ago
  - README.md · LAB2, Bài 1 Hướng dẫn và Starter Code · 2 hours ago
  - bai1.c · LAB2, Bài 1 Hướng dẫn và Starter Code · 2 hours ago
- README Content:**

YÊU CẦU Xây dựng chương trình cộng / trừ (+/-) 2 số Input : Nhập vào từ bàn phím 2 số Output: Hiển thị ra màn hình tổng, hiệu của 2 số

HƯỚNG DẪN THỰC HIỆN

  - Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
  - Dùng lệnh scanf để nhập từ bàn phím
  - Dùng lệnh printf để hiển thị nội dung ra màn hình

**Right Side (Template Repository):**

- Title:** COM108-LAB2-Bai1 (Public template)
- Code tab:** main · 1 Branch · 0 Tags
- Files:**
  - vnTranTuan · LAB2, Bài 1 Hướng dẫn và Starter Code · d6ae08a · 2 hours ago · 1 Commit
  - README.md · LAB2, Bài 1 Hướng dẫn và Starter Code · 2 hours ago
  - bai1.c · LAB2, Bài 1 Hướng dẫn và Starter Code · 2 hours ago
- README Content:**

YÊU CẦU Xây dựng chương trình cộng / trừ (+/-) 2 số Input : Nhập vào từ bàn phím 2 số Output: Hiển thị ra màn hình tổng, hiệu của 2 số

HƯỚNG DẪN THỰC HIỆN

  - Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
  - Dùng lệnh scanf để nhập từ bàn phím

**Annotations:**

- A yellow arrow points from the 'Code' tab of the standard repository to the 'Code' tab of the template repository.
- A yellow box highlights the word 'Repository' under the standard repository's README content.
- A red box highlights the word 'REPOSITORY TEMPLATE' under the template repository's README content.

# Assignments (các bài Lab / Assignment)



+ New assignment

## Grading and feedback

### 7 Enable feedback pull request

*Cho phép tự động mở pull request khi sinh viên tham gia bài, và chúng ta có thể feedback trực tiếp vào từng dòng code*

### 8 Create assignment

Set up autograding and feedback

Classroom

Classrooms / COM108-UDPM-classroom-class-SU25-01 / New assignment

GitHub Education

Grading and feedback

Set up autograding, protected paths, and feedback.

Add autograding tests

Autograding tests help provide feedback for students immediately upon submission using GitHub Actions. Add a test to enable autograding.

Add test

Enable feedback pull requests

A pull request will automatically be created on all student repository submissions. Pull requests allow you to answer questions and provide feedback.

Back

Create assignment

# Assignments (các bài Lab / Assignment)



+ New assignment

Assignment has been created

9 Copy & Share assignment link

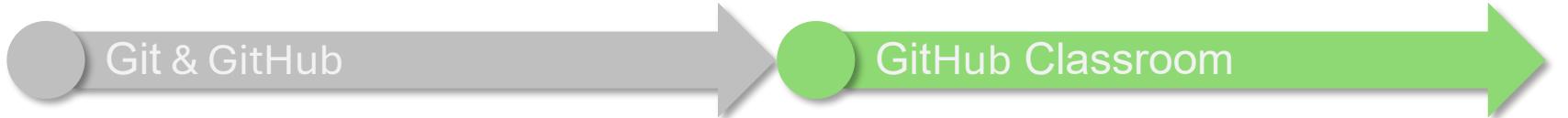
*Chia sẻ assignment link*

The screenshot shows a browser window titled "LAB2, Bai 1". The address bar contains the URL <https://classroom.github.com/classrooms/227212486-com108-udpm-classroom-class-su25-01/assignments/lab2-bai-1>. The page header says "Classroom" and "GitHub Education". A green notification bar at the top states "LAB2, Bai 1" has been created! Below the notification, the assignment details are shown: "LAB2, Bai 1", "Starter code from COM108-UDPM/com108-udpm-classroom-class-su25-01-lab2-bai-1-COM108-LAB2-Bai1", "Individual assignment", "Due Sep 30, 2025, 16:00 UTC", and "Active". The assignment URL is <https://classroom.github.com/a/xc20Phj9>. A yellow arrow points from the "Assignment has been created" text in the previous slide to the green notification bar. Another yellow arrow points from the number 9 in the orange circle to the assignment URL.

Share the invitation link with your students so they can accept the assignment.

<https://classroom.github.com/a/xc20Phj9>

# Tóm tắt



- ✓ 1. Cài đặt Git, và
  - ✓ 2. **Sign up / Đăng ký**  
GitHub account
  - ✓ 3. **Clone repository:** download  
nội dung từ một GitHub Repository
  - ✓ 4. **Create repository / Tạo**  
một Empty GitHub Repository
  - ✓ 5. **Publish repository / upload**  
nội dung lên GitHub Repository
- ✓- Create classroom (Tạo lớp)
  - ✓- Create assignment, starter code

# Nội dung

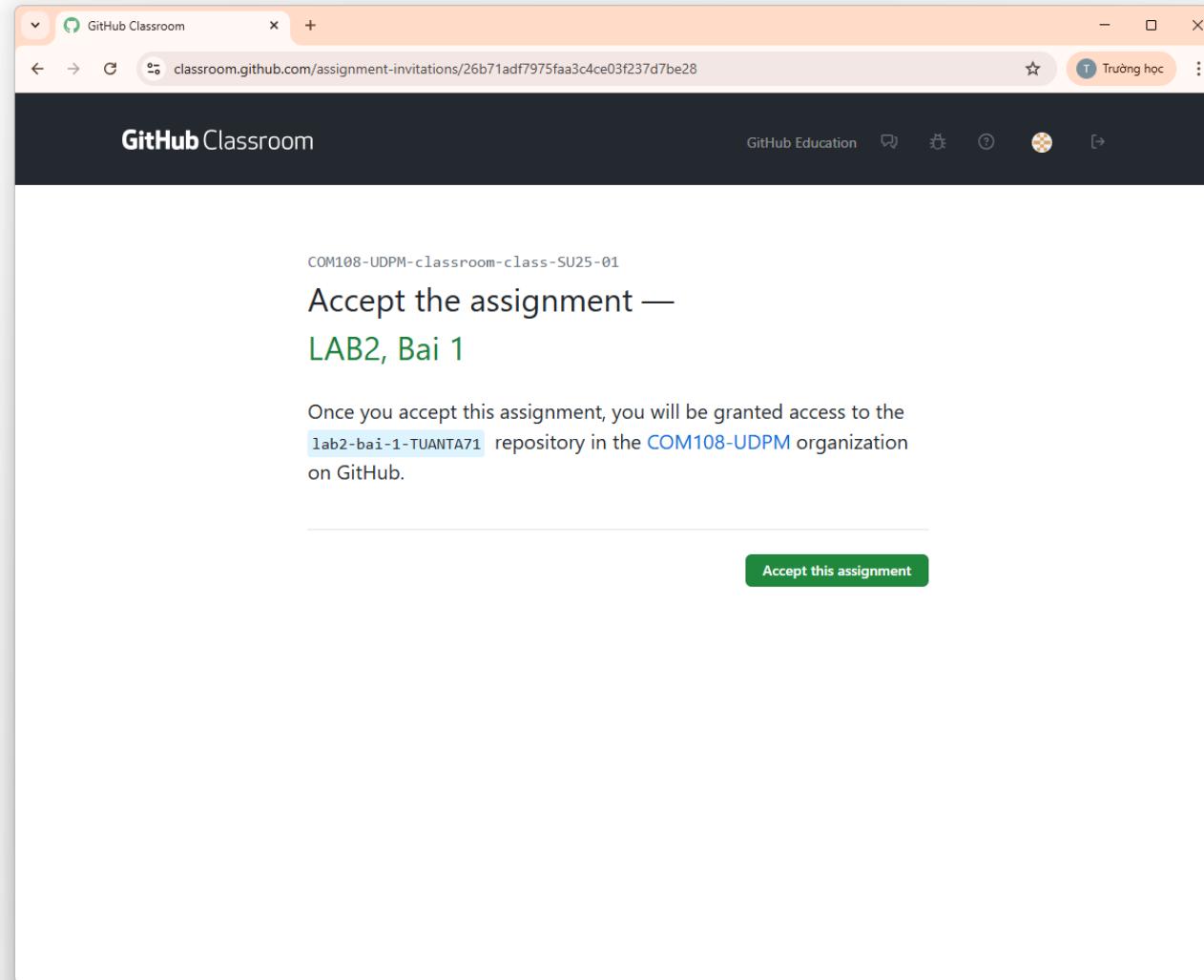
**Student work**

Git basic

Join class – Do homework – Submit

**C**

# Student work – Join & Accept assignment



Accept this assignment

Truy cập assignment link và  
tham gia bài assignment

# Student work – Join & Accept assignment

The screenshot shows a browser window for GitHub Classroom at the URL [classroom.github.com/assignment-invitations/26b71adf7975faa3c4ce03f237d7be28/status](https://classroom.github.com/assignment-invitations/26b71adf7975faa3c4ce03f237d7be28/status). The page displays a message "You're ready to go!" and "You accepted the assignment, LAB2, Bai 1.". It also shows that an assignment repository has been created with the URL <https://github.com/COM108-UDPM/lab2-bai-1-TUANT71>. A red arrow points from this URL to the placeholder text in the callout box below. The page includes a "Join the GitHub Student Developer Pack" sidebar and a large green "Accept this assignment" button.

Accept this assignment

Hai thông tin đầu tiên

1. Url của repository assignment
2. Thời hạn của assignment

`https://github.com/<repository assignment>-<student ID>`

Repository assignment của từng sinh viên sẽ được tự động tạo ngay sau khi accept assignment



# Assignment management

## Assignment management

Chức năng quản lý cung cấp nhiều thông tin trong đó có những nội dung chính như :

1. Danh sách sinh viên
2. Tình trạng tham gia assignment
3. Tình trạng nộp bài assignment

The screenshot shows the GitHub Classroom interface for an assignment titled "LAB2, Bai 1". The assignment is set to be due on Sep 30, 2025, at 16:00 UTC. It is currently active. The assignment details section shows that there are 2 students total, with 1 student accepted and 1 submission received. The student "TuanTA71" is listed as having not submitted the assignment. A "Repository" link is also visible.

Assignment Details	
Students total	2
2 Rostered	0 Added students
Accepted assignments	1
1 Students	
Assignment submissions	1
0 Submitted	1 Not submitted

Filters: Search for an assignment, Filter by unlinked accounts, Filter by accepted, Filter by passing, Sort

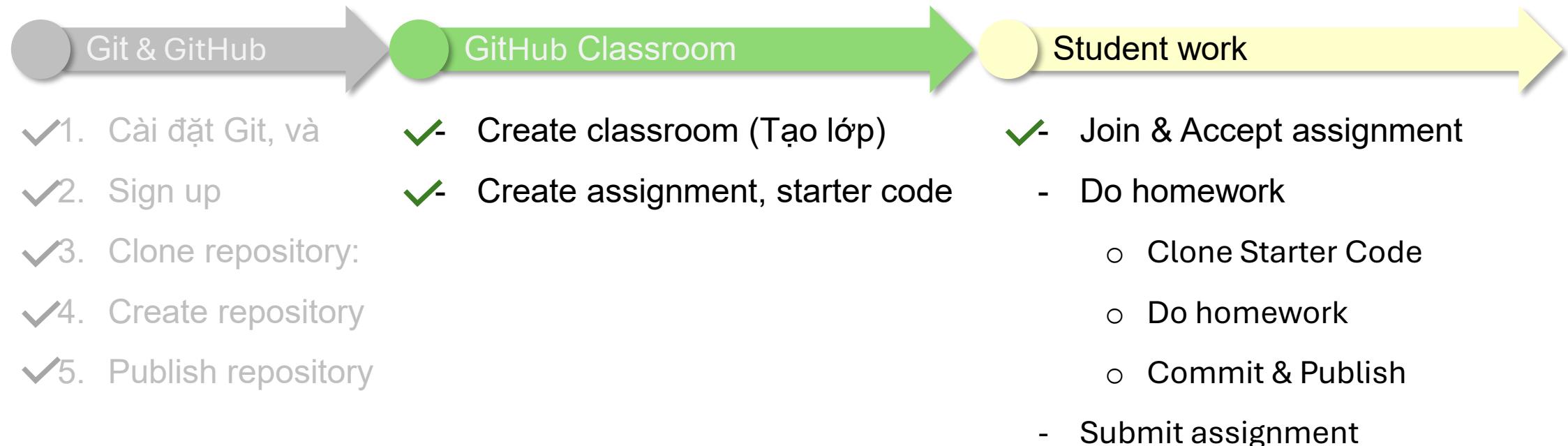
Classroom roster:

User	Status
TuanTA71	Not submitted

@TUANTA71 - 0 commits

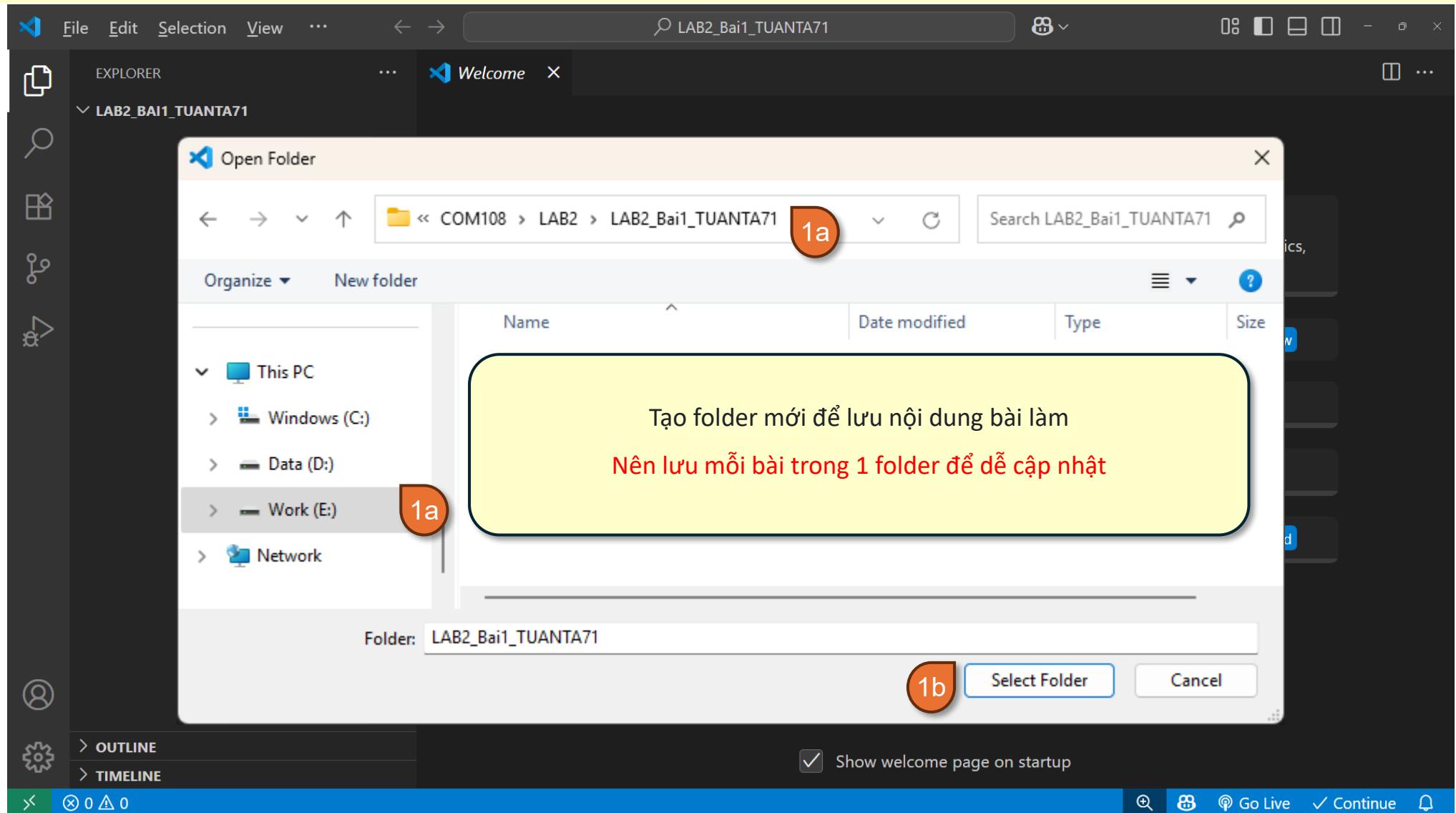
Repository

# Tóm tắt





# Student work – Create project folder





# Student work – Clone Starter code

The screenshot shows the Visual Studio Code interface. The top bar has the URL <https://github.com/COM108-UDPM/lab2-bai-1-TUANTA71>. A yellow arrow points to the search bar containing the same URL. Below the search bar, a context menu is open with the option "Clone Git Repository..." highlighted by a yellow box and labeled "2a". The menu also includes "Open Folder..." and "Connect to...". The Explorer sidebar shows a folder named "LAB2\_BAI1\_TUANTA71". A red circle with "2b" is placed over the top bar URL area.

**Clone Git Repository**

Với URL của Repository Assignment

**<https://github.com/<repository assignment>-<student ID>>**

Show welcome page on startup

X ⊗ 0 △ 0 🔍 ⚙️ Go Live ✓ Continue 📲



# Student work – Clone Starter code

File Edit Selection View ... ← → ⌂ lab2-bai-1-TUANTA71 ⌂ Preview README.md X ⌂ Review the assignment due date

EXPLORER LAB2-BAI-1-TUANTA71 bai1.c > ... README.md M

```

C bai1.c      ...
C bai1.c > ...
1 #include <stdio.h>
2
3 int main() {
4     // Chao mung ban den voi FPOLY
5     // Mon hoc COM108 - Nhập môn lập trình
6     // LAB2 - bai1
7     printf("Hello, FPOLY!\n");
8     printf("COM108, LAB2 - bai1\n");
9
10    // Các lệnh nhập vào số A
11
12
13
14    // Các lệnh nhập vào số B
15
16
17
18
19    // Các lệnh tính tổng các số A, và B
20
21
22
23
24
25
26 }
```

YÊU CẦU

Xây dựng chương trình cộng / trừ (+/-) 2 số

Input : Nhập vào từ bàn phím 2 số

Output: Hiển thị ra màn hình tổng, hiệu của 2 số

HƯỚNG DẪN THỰC HIỆN

1. Khai báo các biến số A, B và các kết quả  
Tổng, Hiệu của 2 số
2. Dùng lệnh scanf để nhập từ bàn phím
3. Dùng lệnh printf để hiển thị nội dung ra màn  
hình

Nội dung của bài assignment. Đây chính là nội dung Giảng viên đã chuẩn bị trước



# Student work – Do homework

**File Edit Selection View Go Run ...** **lab2-bai-1-TUANTA71** **...**

**RUN AND DEBUG** **...**

**RUN**

**Run and Debug**

To customize Run and Debug create a launch.json file.

Debug using a terminal command or in an interactive chat.

To learn more about launch.json, see Configuring C/C++ debugging.

**C bai1.c M X**

**C bai1.c > main()**

```

1 #include <stdio.h>
2
3 int main() {
4     // Chao mung ban den voi FPOLY
5     // Mon hoc COM108 - Nhap mon lap trinh
6     // LAB2 - bai1
7     printf("Hello, FPOLY!\n");
8     printf("COM108, LAB2 - bai1\n");
9
10    // Cac lenh nhap vao so A
11    printf("Moi ban nhap vao so A: ");
12    int soA;
13    scanf("%d", &soA);
14
15    // Cac lenh nhap vao so B
16    printf("Moi ban nhap vao so B: ");
17    int soB;
18    scanf("%d", &soB);
19
20    // Cac lenh tinh tong cac so A, B
21    int tong = soA + soB;
22    printf("Tong hai so A va B la: %d", tong);
23
24    return 0;
25 }
```

**PROBLEMS OUTPUT TERMINAL PORTS AZURE DEBUG CONSOLE**

Hello, FPOLY!  
COM108, LAB2 - bai1  
Moi ban nhap vao so A: 3  
Moi ban nhap vao so B: 2  
Tong hai so A va B la: 5  
PS E:\WorkFolder\2025\COM108\LAB2\LAB2\_Bai1\_TUANTA71\lab2-bai-1-TUANTA71>

**Review the assignment due date**

**YÊU CẦU**

Xây dựng chương trình cộng / trừ (+/-) 2 số

Input : Nhập vào từ bàn phím 2 số

Output: Hiển thị ra màn hình tổng, hiệu của 2 số

**HƯỚNG DẪN THỰC HIỆN**

1. Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
2. Dùng lệnh scanf để nhập từ bàn phím
3. Dùng lệnh printf để hiển thị nội dung ra màn hình

Nội dung bài làm

Và

Kết quả chạy chương trình

**github-classroom[bot] (16 hours ago)**

**Ln 25, Col 2 Spaces: 4 UTF-8 CRLF { } C ⚙️ Go Live Win32 ✓ Continue 🔍**



# Student work – Submit assignment

**3a** Click the icon to open the commit dialog.

**3b** Enter the commit message: `Nộp bài LAB2, bài 1, TUANTA71`.

**3c** Click the Commit button.

The code in `bai1.c` is:

```

1 #include <stdio.h>
2
3 int main() {
4     // Chao mung ban den voi FPOLY
5     // Mon hoc COM108 - Nhap mon lap trinh
6     // LAB2 - bai1
7     printf("Hello, FPOLY!\n");
8     printf("COM108, LAB2 - bai1\n");
9
10    // Cac lenh nhap vao so A
11    printf("Moi ban nhap vao so A: ");
12    int soA;
13    scanf("%d", &soA);
14
15    // Cac lenh nhap vao so B
16    printf("Moi ban nhap vao so B: ");
17    int soB;
18    scanf("%d", &soB);
19
20    // Cac lenh tinh tong cac so A, B
21    int tong = soA + soB;
22    printf("Tong hai so A va B la: %d",
23
24    return 0;
25 }

```

The terminal output shows:

```

Hello, FPOLY!
COM108, LAB2 - bai1
Moi ban nhap vao so A: 3
Moi ban nhap vao so B: 2
Tong hai so A va B la: 5

```

The status bar shows: PS E:\WorkFolder\2025\COM108\LAB2\LAB2\_Bai1\_TUANTA71\lab2-bai-1-TUANTA71

**Review the assignment due date**

**YÊU CẦU**

Xây dựng chương trình cộng / trừ (+/-) 2 số

Input : Nhập vào từ bàn phím 2 số

Output: Hiển thị ra màn hình tổng, hiệu của 2 số

**HƯỚNG DẪN THỰC HIỆN**

- Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số
- Dùng lệnh scanf để nhập từ bàn phím
- Dùng lệnh printf để hiển thị nội dung ra màn hình

**Nhập nội dung “Commit” trước khi nộp bài**

**Ví dụ: Nộp bài LAB2, bài 1, TUANTA71**



# Student work – Submit assignment

**Push**

4

**Push / Submit để nộp bài assignment**

YÊU CẦU  
Xây dựng chương trình cộng / trừ (+/-) 2 số  
Input : Nhập vào từ bàn phím 2 số  
Output: Hiển thị ra màn hình tổng, hiệu của 2 số  
HƯỚNG DẪN THỰC HIỆN  
1. Khai báo các biến số A, B và các kết quả Tổng, Hiệu của 2 số  
2. Dùng lệnh scanf để nhập từ bàn phím  
3. Dùng lệnh printf để hiển thị nội dung ra màn hình

```

1 #include <stdio.h>
2
3 int main() {
4     // Chao mung ban den voi FPOLY
5     // Mon hoc COM108 - Nhap mon lap trinh
6     // LAB2 - bai1
7     printf("Hello, FPOLY!\n");
8     printf("COM108, LAB2 - bai1\n");
9
10    // Cac lenh nhap vao so A
11    printf("Moi ban nhap vao so A: ");
12    int soA;
13    scanf("%d", &soA);
14
15    // Cac lenh nhap vao so B
16    printf("Moi ban nhap vao so B: ");
17    int soB;
18    scanf("%d", &soB);
19
20    // Cac lenh tinh tong cac so A, B
21    int tong = soA + soB;
22    printf("Tong hai so A va B la: %d",
23
24    return 0;
25 }
```



# Assignment management

## Assignment management

Giảng viên quan sát được

### 1. Trạng thái nộp bài của sinh viên

Submitted

Not submitted

**Classroom roster**

	TuanTA71	<a href="#">Submitted</a>
	@TUANTA71	<a href="#">Latest commit 10 minutes ago</a>
		<a href="#">-o- 1 commit</a>

**Classroom**

Classrooms / COM108-UDPM-classroom-class-SU25-01 / LAB2, Bai 1

**LAB2, Bai 1**

Starter code from [COM108-UDPM.com108-udpm-classroom-class-su25-01-lab2-bai-1-COM108-LAB2-Bai1](https://COM108-UDPM.com108-udpm-classroom-class-su25-01-lab2-bai-1-COM108-LAB2-Bai1)

Individual assignment Due Sep 30, 2025, 16:00 UTC Active

Sync assignments <https://classroom.github.com/a/XC20Phj9> Edit Download

**Assignment Details**

Students total 6	Accepted assignments 4	Assignment submissions 4
5 Rostered	1 Added students	3 Submitted 1 Not submitted
4 Students		

Filters Search for an assignment Filter by unlinked accounts Filter by accepted Filter by passing Sort

**Classroom roster**

	huytv2211	<a href="#">Submitted</a>
	@huytv2211	<a href="#">Latest commit 2 days ago</a> -o- 1 commit
		<a href="#">Repository</a>
	locthan2002	<a href="#">Not submitted</a>
	<a href="#">Link to student</a>	-o- 0 commits
		<a href="#">Repository</a>
	Tqbinh1268	<a href="#">Submitted</a>
	@Tqbinh1268	<a href="#">Latest commit 2 days ago</a> -o- 1 commit
		<a href="#">Repository</a>
	TuanTA71	<a href="#">Submitted</a>
	@TUANTA71	<a href="#">Latest commit 3 weeks ago</a> -o- 1 commit
		<a href="#">Repository</a>



# Assignment management

## Assignment management

Giảng viên quan sát được  
2. Nội dung đã “commit”

The screenshot shows a GitHub repository page for 'LAB2, Bài 1'. The 'Commits' tab is selected, indicated by a yellow arrow. A yellow box highlights the list of commits. The commits are:

- Nộp bài LAB2, bài 1, TUANTA71 (vnTranTuan committed 20 minutes ago) - SHA: f318def
- add deadline (github-classroom[bot] authored 16 hours ago) - SHA: a7da990
- Initial commit (github-classroom[bot] authored 16 hours ago) - SHA: 6e203b5



# Assignment management

## Assignment management

Giảng viên quan sát được

3. Chi tiết bài làm trên từng thay đổi

The screenshot shows a GitHub commit page for a repository named 'LAB2, Bai 1'. The commit message is 'Nộp bài LAB2, bài 1, TUANTA71'. The commit details show '4 files changed +41 -9 lines changed'. The main focus is on the 'bai1.c' file, which contains the following code:

```
@@ -8,18 +8,18 @@ int main() {
8   8     printf("COM108, LAB2 - bai1\n");
9   9
10 10    // Cac lenh nhap vao so A
11  -
12  -
13  -
14 11    + printf("Moi ban nhap vao so A: ");
15 12    + int soA;
16 13    + scanf("%d", &soA);
17  -
18  -
19  -
20 20    // Cac lenh nhap vao so B
21 16    + printf("Moi ban nhap vao so B: ");
22 17    + int soB;
23 18    + scanf("%d", &soB);
24 21    // Cac lenh tinh tong cac so A, va B
25 22    + int tong = soA + soB;
26 23    + printf("Tong hai so A va B la: %d", tong);
27 24
28 25    return 0;
29 }
```

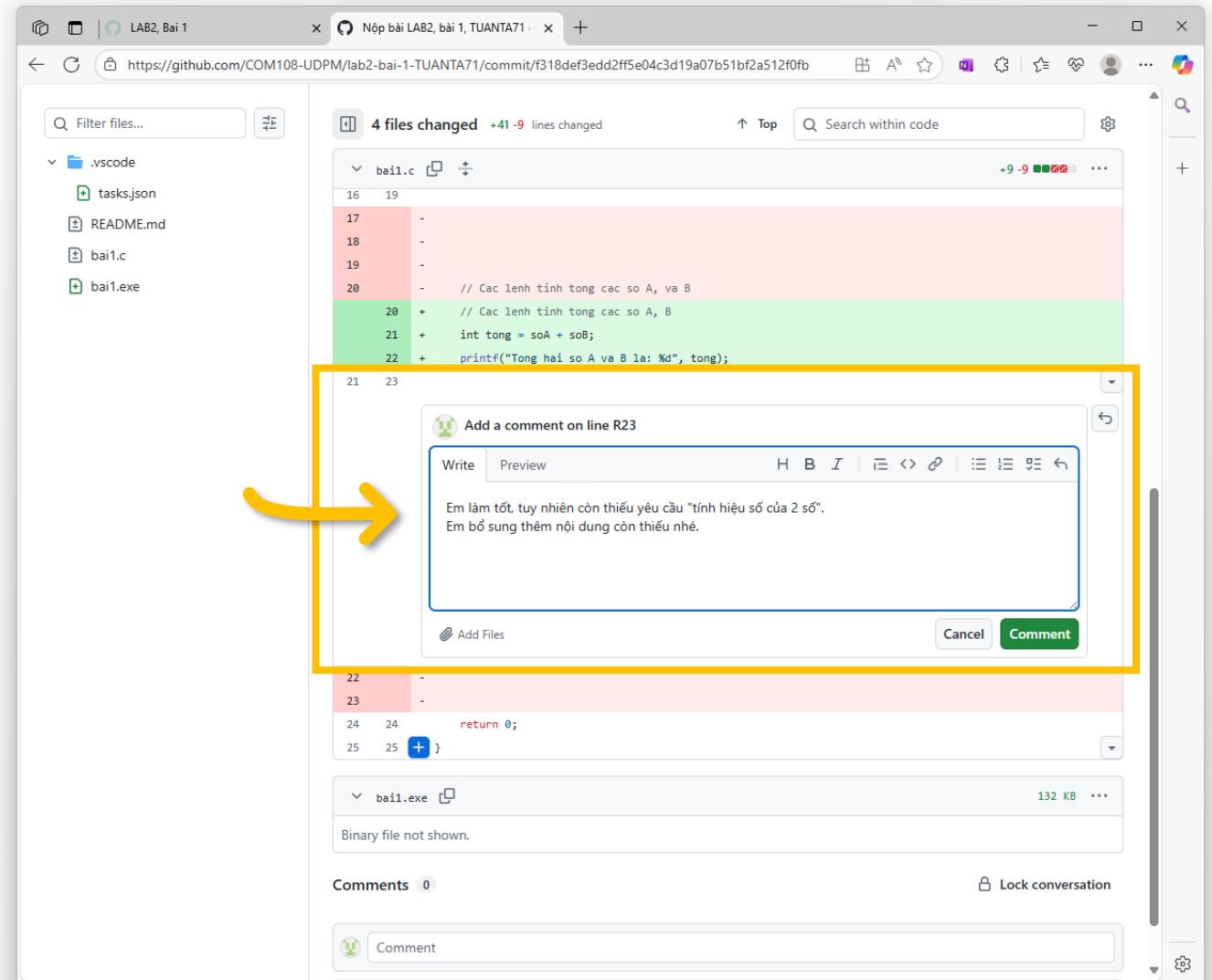
A yellow box highlights the changes in the 'bai1.c' file, and a yellow arrow points from the text 'Chi tiết bài làm trên từng thay đổi' to this box.

# Assignment management

## Assignment management

Giảng viên “feedback / comment”

### 4. Nội dung chi tiết của bài làm



The screenshot shows a GitHub commit page for a repository named 'LAB2, Bài 1'. The commit URL is <https://github.com/COM108-UDPM/lab2-bai-1-TUANTA71/commit/f318def3edd2ff5e04c3d19a07b51bf2a512f0fb>. The commit message is 'Nộp bài LAB2, bài 1, TUANTA71'. The commit summary indicates '4 files changed' and '+41 -9 lines changed'. The main pane displays a diff between two versions of a file named 'bai1.c'. A yellow arrow points from the 'Write' field of a comment modal at the bottom right towards the code diff. The comment text in the modal reads: 'Em làm tốt, tuy nhiên còn thiếu yêu cầu "tính hiệu số của 2 số". Em bổ sung thêm nội dung còn thiếu nhé.' The modal has 'Comment' and 'Cancel' buttons.



# Assignment management

## Assignment management

Giảng viên “**feedback / comment**”  
5. Tổng thể nội dung của bài làm

The screenshot shows a GitHub commit page for a lab assignment. The commit message is "Nộp bài LAB2, bài 1, TUANTTA71". The commit details show 4 files changed (+41 -9 lines changed) with a focus on the file `bai1.c`. A comment from user `vnTranTuan` is displayed, suggesting improvements to the code. Below the code snippet, there is a comment section with a yellow box highlighting the input field for a new comment. A yellow arrow points to this input field, indicating where students should enter their feedback.

LAB2, Bài 1

Nộp bài LAB2, bài 1, TUANTTA71

https://github.com/COM108-UDPM/lab2-bai-1-TUANTTA71/commit/f318def3edd2ff5e04c3d19a07b51bf2a512f0fb#r1...

4 files changed +41 -9 lines changed

`bai1.c`

Comment on line R23

`vnTranTuan` 10 minutes ago

Em làm tốt, tuy nhiên còn thiếu yêu cầu "tính hiệu số của 2 số".  
Em bổ sung thêm nội dung còn thiếu nhé.

Write a reply

`bai1.exe`

Binary file not shown.

Comments 0

Lock conversation

Write Preview

Để nâng cao hơn nội dung của bài làm.  
Em có thể mở rộng chương trình hơn để có thể tính tổng của 3 số.  
Chúc em thành công

Drop, or click to add files

Cancel Comment

Subscribe You're not receiving notifications from this thread.

# Student work – View feedback / comment

The screenshot shows a GitHub Classroom interface with a yellow callout box highlighting the feedback section.

**GitHub Classroom - History for bai1.c - COM108-UDPM**

**Commits**

History for lab2-bai-1-TUANTA71 / bai1.c on main

Commits on Aug 25, 2025

- Nộp bài LAB2, bài 1, TUANTA71 (vnTranTuan committed 3 hours ago)
- Initial commit (github-classroom[bot] authored 19 hours ago)

Sinh viên xem nội dung “feedback / comment”

**Feedback / Comment Section:**

vnTranTuan 22 minutes ago  
Em làm tốt, tuy nhiên còn thiếu yêu cầu “tính hiệu số của 2 số”.  
Em bổ sung thêm nội dung còn thiếu nhé.

vnTranTuan 11 minutes ago  
Để nâng cao hơn nội dung của bài làm.  
Em có thể mở rộng chương trình hơn để có thể tính tổng của 3 số.  
Chúc em thành công

**File Changes:**

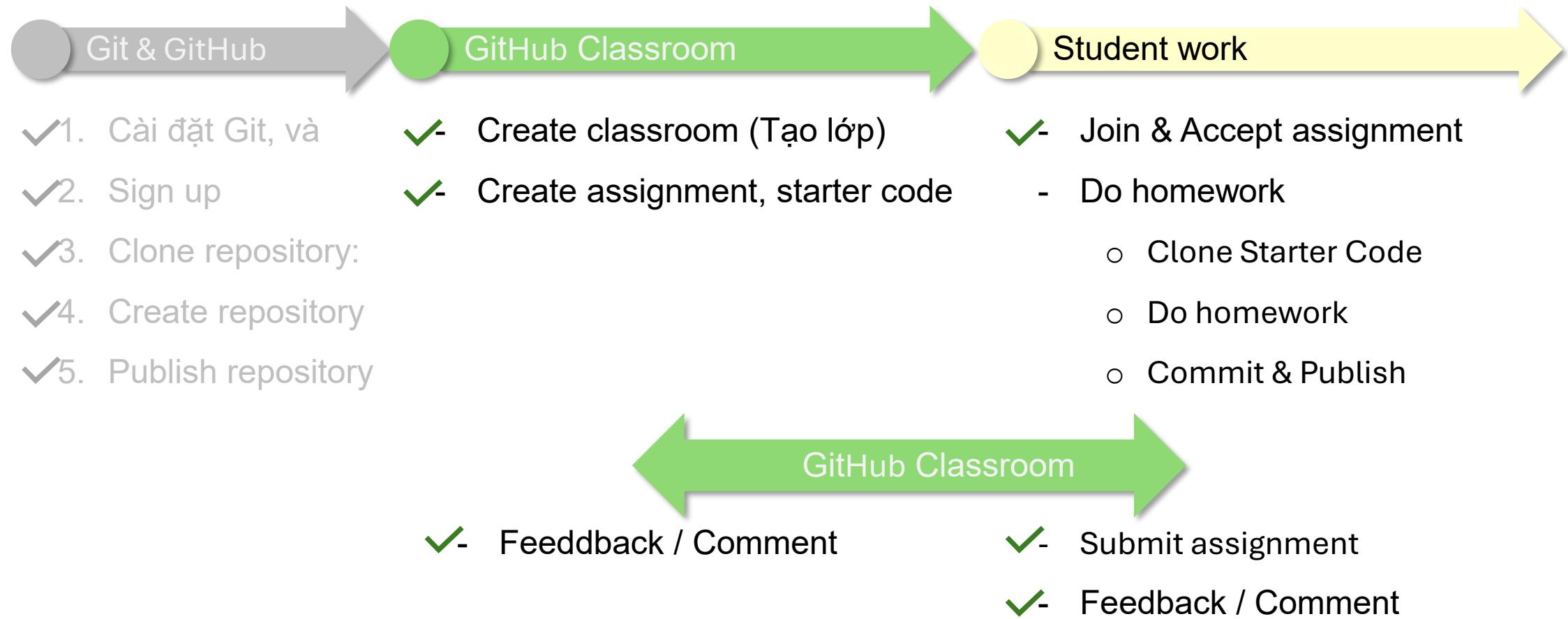
- bai1.c**: 4 files changed, +41 -9 lines changed
- bai1.exe**: Binary file not shown.

**Comments:** 1

vnTranTuan 11 minutes ago

**Subscribe** You're not receiving notifications from this thread.

# Tóm tắt



# Tham khảo

Cài đặt C Programming with VS Code

1. Visual studio code
2. Extension : [C/C++ for Visual Studio Code](#)
3. Compiler : [Using GCC with MinGW](#)
4. [Using Git in Apache NetBeans](#)

# HẾT PHẦN 1



# TRÂN TRỌNG CẢM ƠN