



Git & GitHub Classroom

Nội dung dành cho sinh viên

Nội dung

**A**

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

B**C**

Student work
Git basic
Join class – Do homework – Submit

D

Nội dung



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

A



Introduction & Installation

[Introduction to Git in VS Code](#)

[Git - Downloads](#)



🔍 Type / to search entire site...



About

Documentation

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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



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 →](#)



GitHub account



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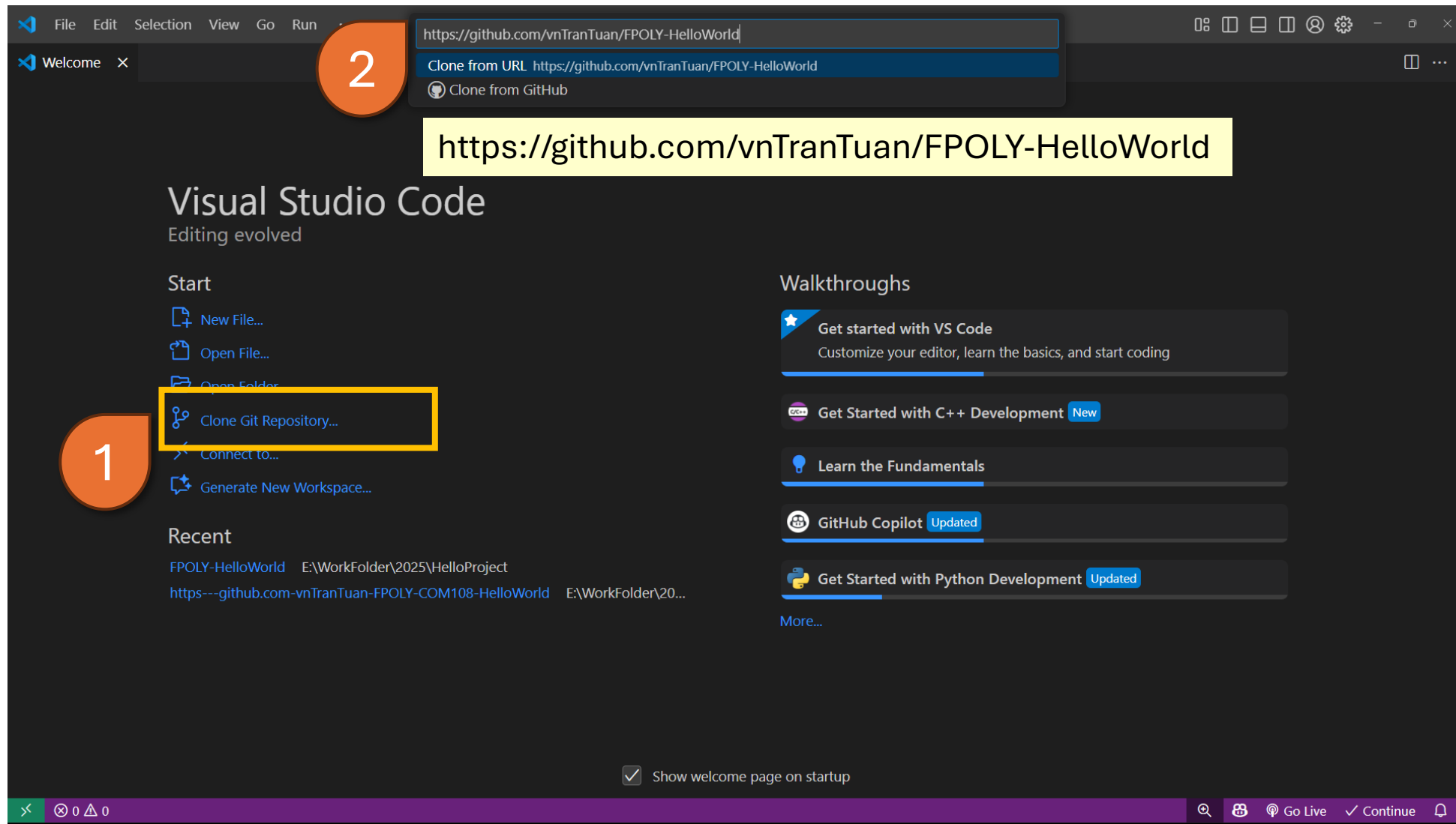
Sign up for GitHub

Try GitHub Copilot





VS Code **Clone** Hello Project





VS Code **Clone** Hello Project


A screenshot of the Visual Studio Code editor interface. The Explorer sidebar on the left shows a project named 'FPOLY-HELLOWORLD' with files '.vscode', 'hello.c', and 'hello.exe'. The 'hello.c' file is selected and open in the main editor. The code in 'hello.c' is a simple C program that includes 'stdio.h' and has a 'main' function that prints 'Hello, World!' and returns 0. The status bar at the bottom shows the current branch as 'master', 0 errors and 0 warnings, and various settings like 'Spaces: 4', 'UTF-8', 'CRLF', and 'Win32'.

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



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 :

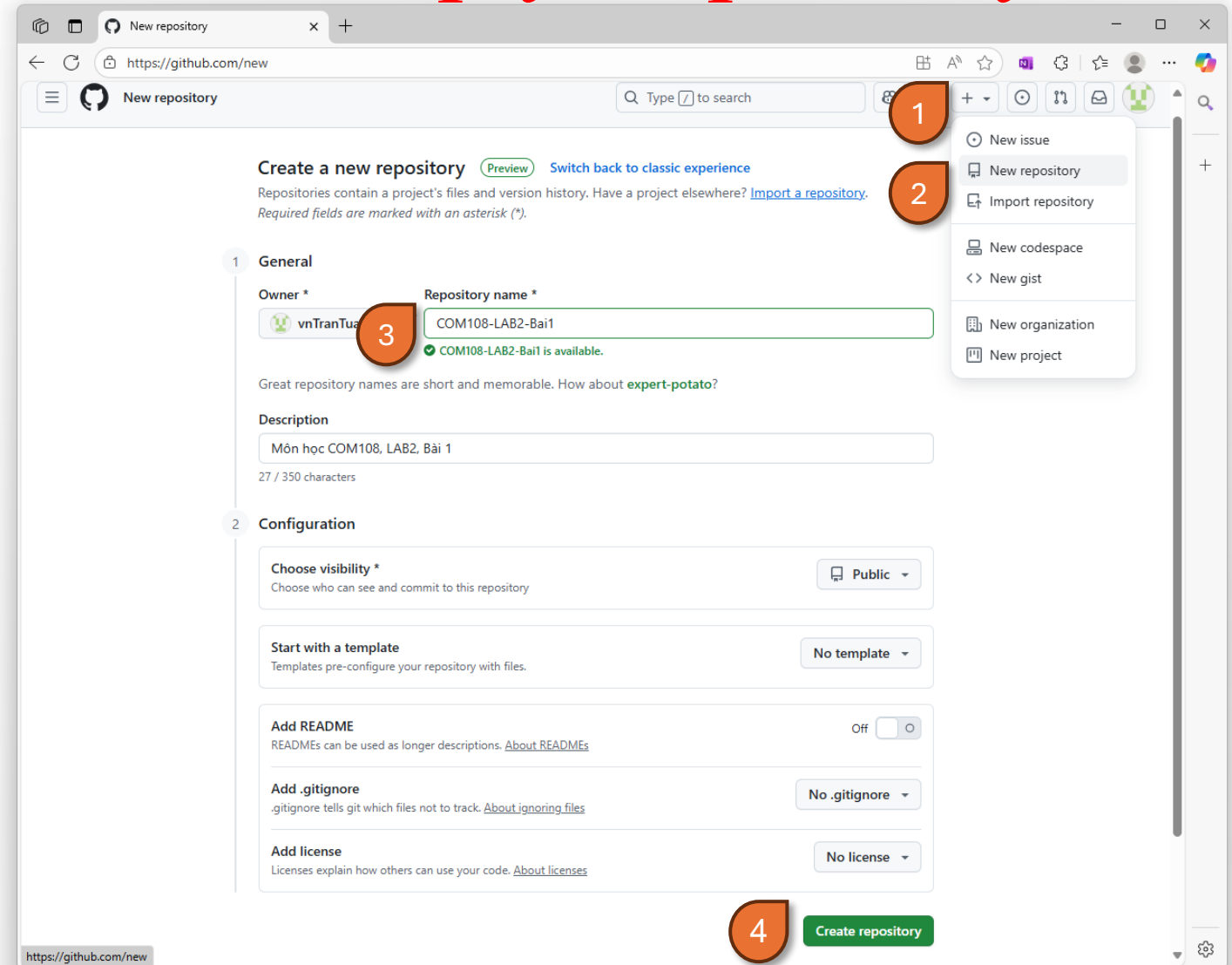
[COM108-LAB2-Bai1](#)

Description

Ví dụ :

[Môn học COM108, Repository của LAB2, Bài 1](#)

4. Click nút **Create repository**



The screenshot shows the GitHub 'New repository' page. The interface is in Vietnamese. The page title is 'Create a new repository'. Below the title, there's a description: 'Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#). Required fields are marked with an asterisk (*).' The page is divided into two sections: 'General' and 'Configuration'. In the 'General' section, there's a 'Repository name' field with the value 'COM108-LAB2-Bai1' and a message 'COM108-LAB2-Bai1 is available.' Below it is a 'Description' field with the value 'Môn học COM108, LAB2, Bài 1'. In the 'Configuration' section, there's a 'Choose visibility' dropdown set to 'Public', a 'Start with a template' dropdown set to 'No template', an 'Add README' toggle set to 'Off', an 'Add .gitignore' dropdown set to 'No .gitignore', and an 'Add license' dropdown set to 'No license'. At the bottom right, there's a green 'Create repository' button. Numbered callouts 1 through 4 are placed on the page: 1 points to the '+' button in the top right, 2 points to the 'New repository' option in the dropdown menu, 3 points to the 'Repository name' field, and 4 points to the 'Create repository' button.

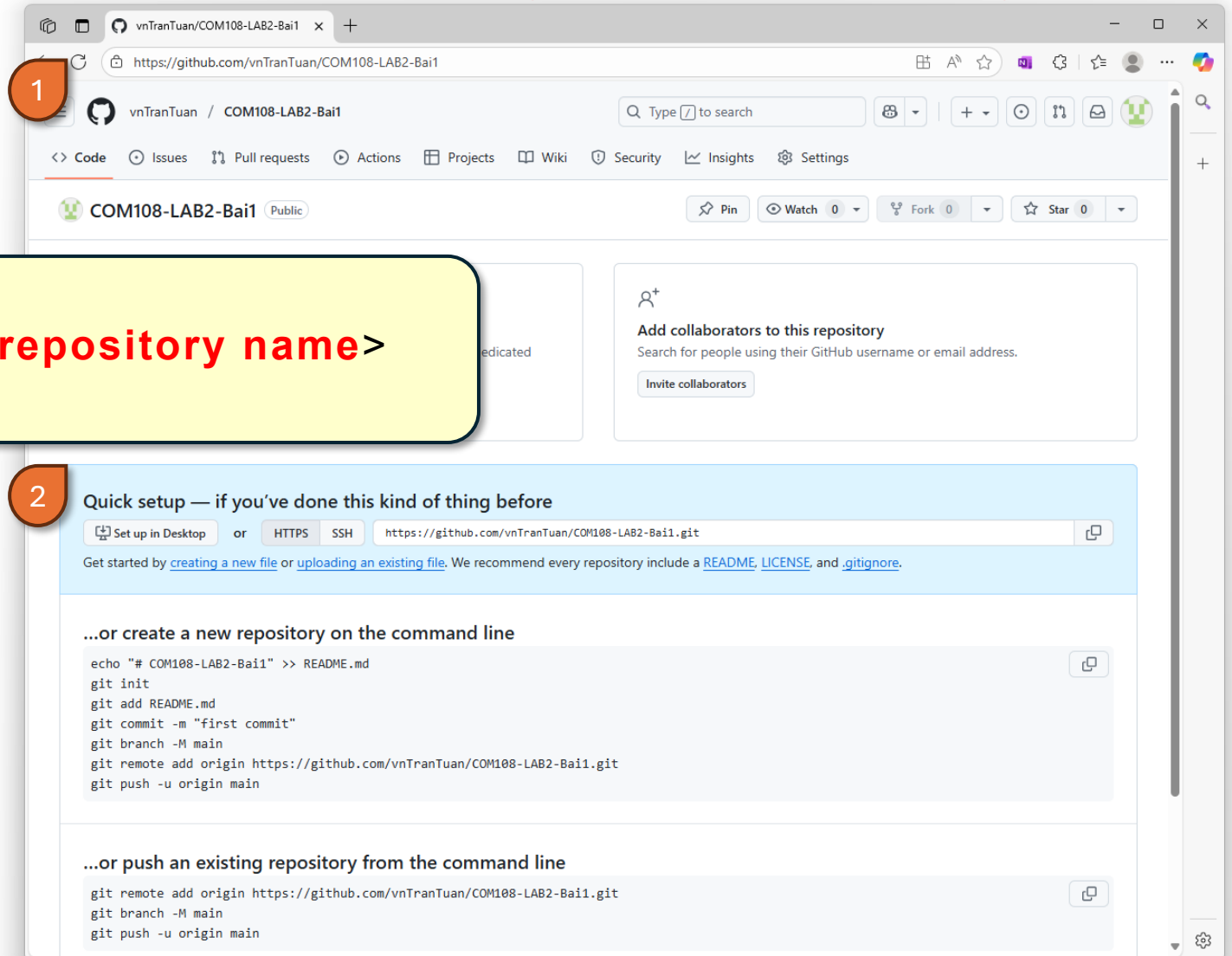


Ví dụ - GitHub Create **Empty Repository**

Trang web của repository đã tạo

1

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







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** 

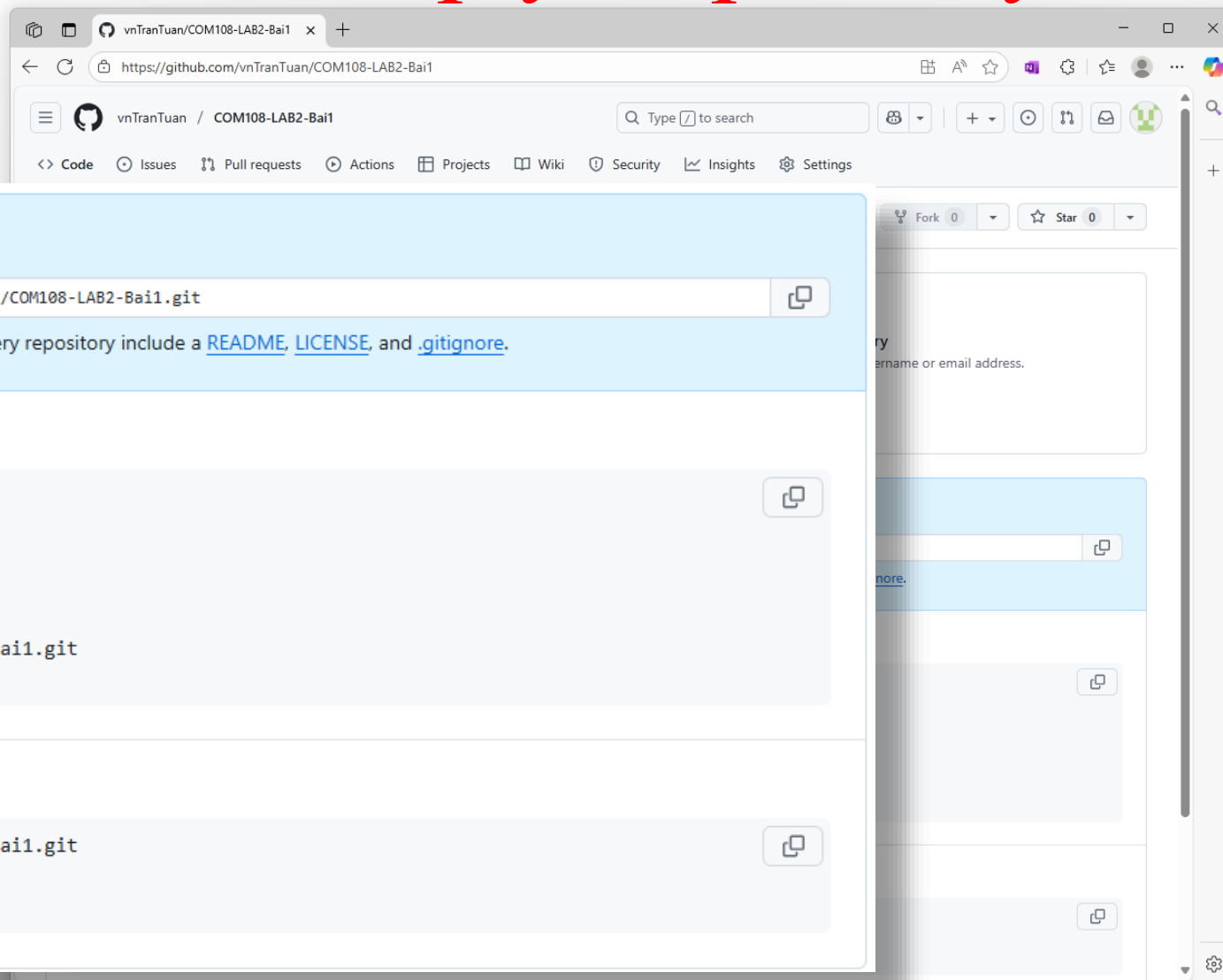
Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...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
```

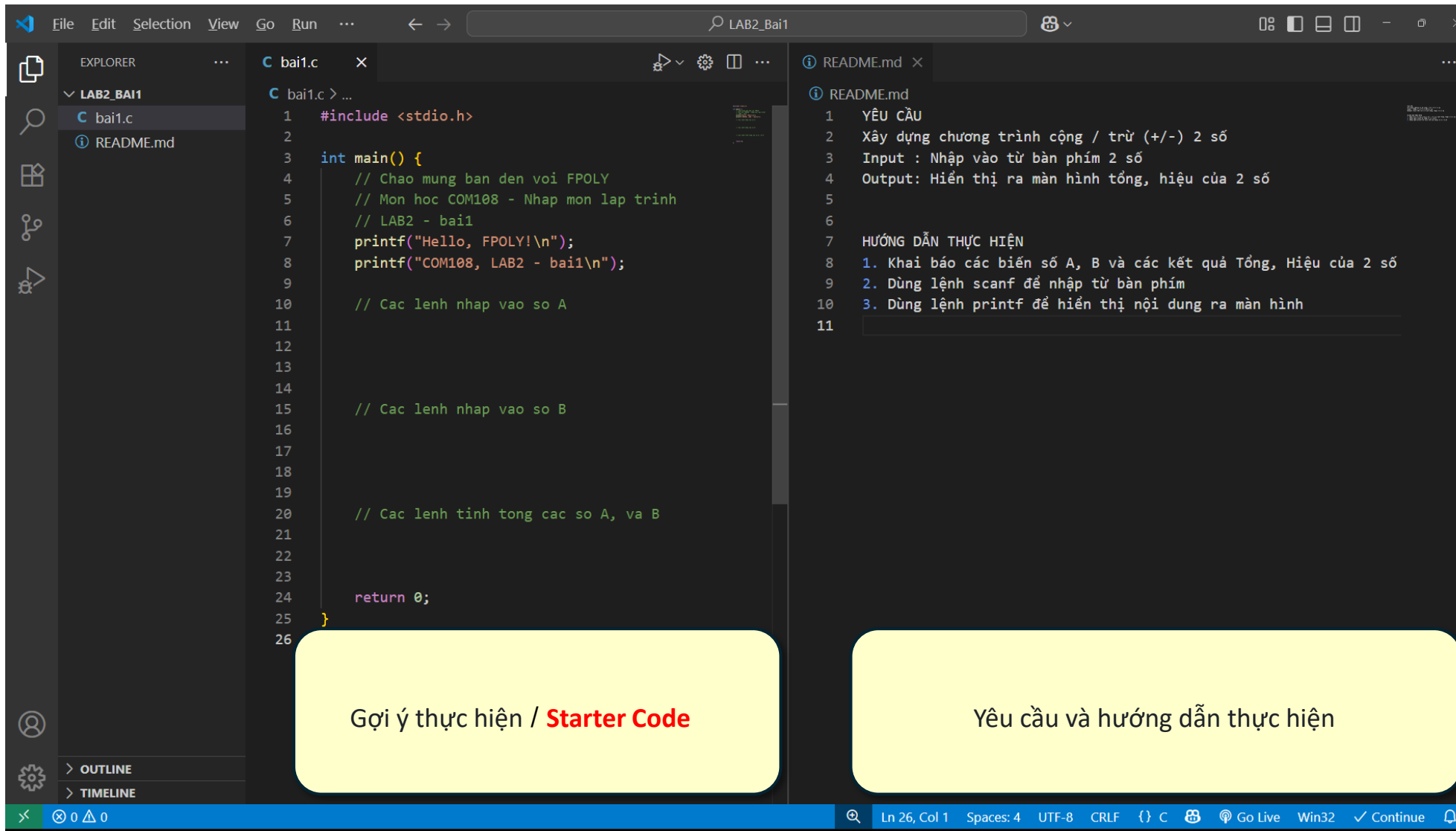
...or push an existing repository from the command line

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



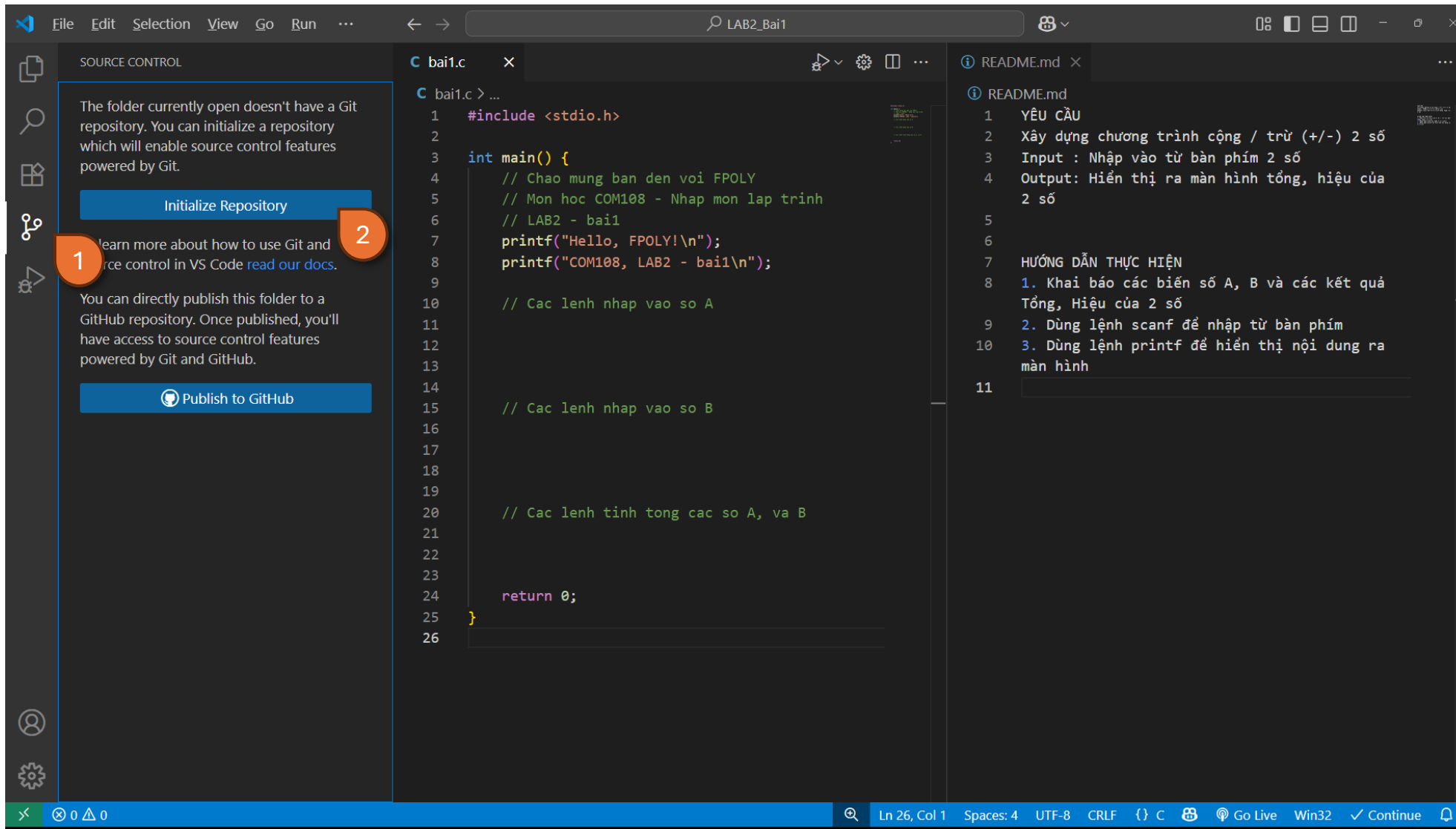


VS Code - Create Project (*ví dụ LAB2, bài 1*)



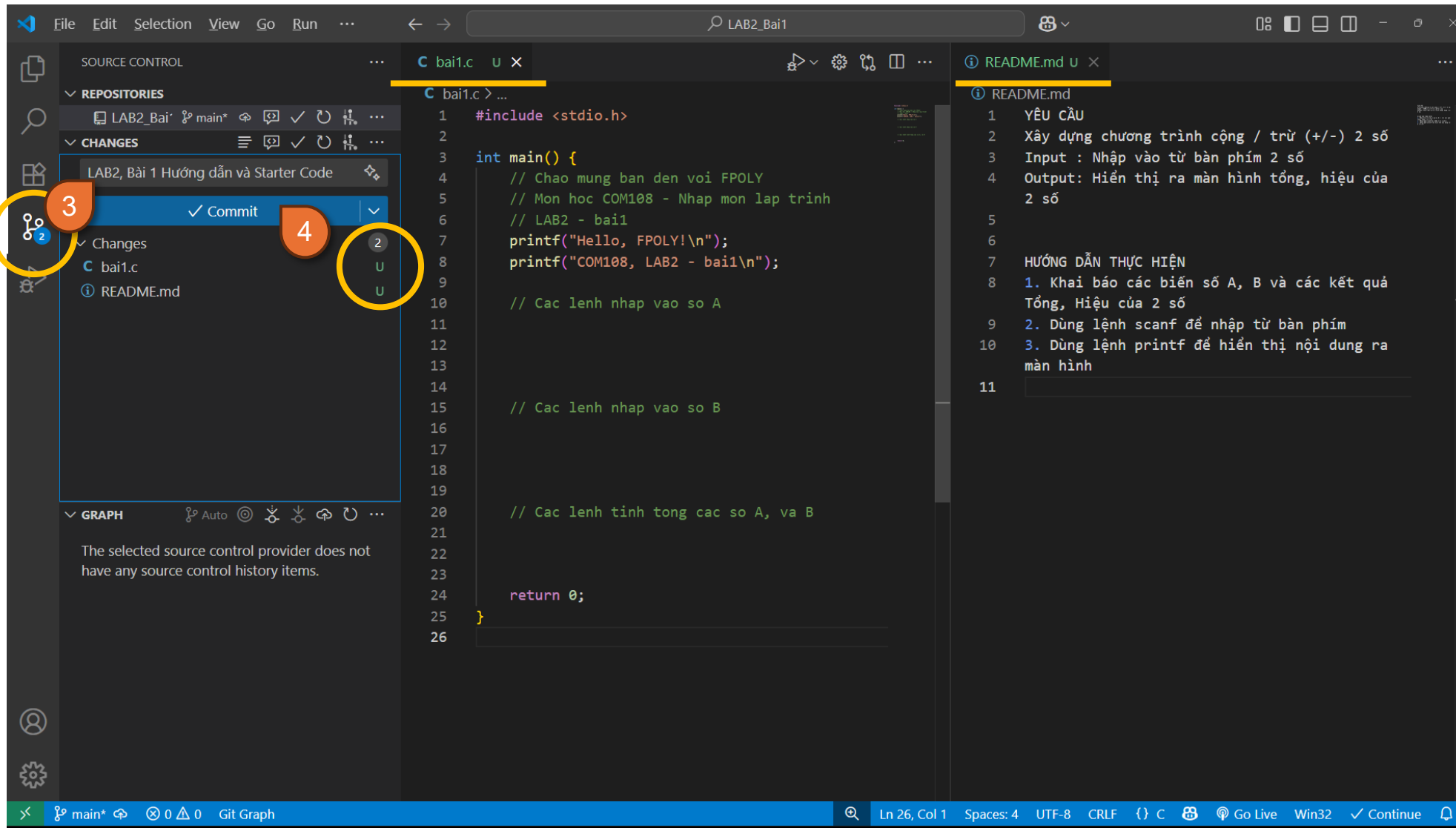


VS Code – Git Initialize Repository



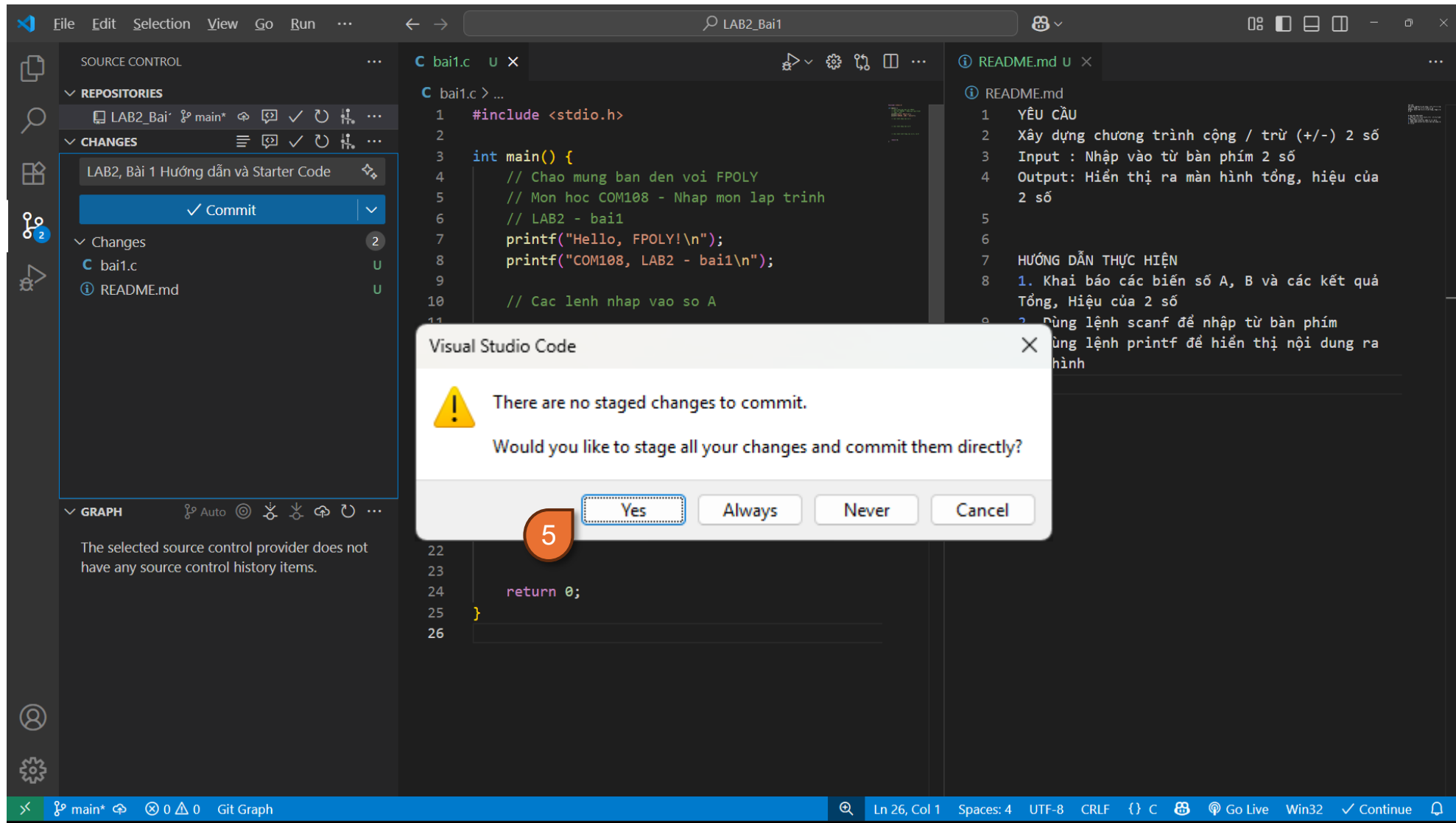


VS Code – Git Commit changes





VS Code – Git Commit changes





VS Code – Git Publish

VS Code interface showing the Git Publish dialog box.

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

Set up in Desktop or **HTTPS** `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 interface details:

- Source Control panel: LAB2_Bai1, main branch, Publish Branch button.
- Graph panel: LAB2, Bài 1 Hướng dẫn và Starter Co...
- Status bar: main branch, 0 changes, Git Graph.



VS Code – Git Publish

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

- SOURCE CONTROL:** Shows the repository 'LAB2_Bai1' with a 'main' branch. A 'Publish Branch' button is visible.
- Editor:** Displays a C program 'bai1.c' and a 'README.md' file. The C program includes comments in Vietnamese and uses `printf` to output a greeting and some data. The README file contains instructions in Vietnamese.
- Terminal:** Shows the command `git branch -M main` being executed. A red circle highlights the `git` command.

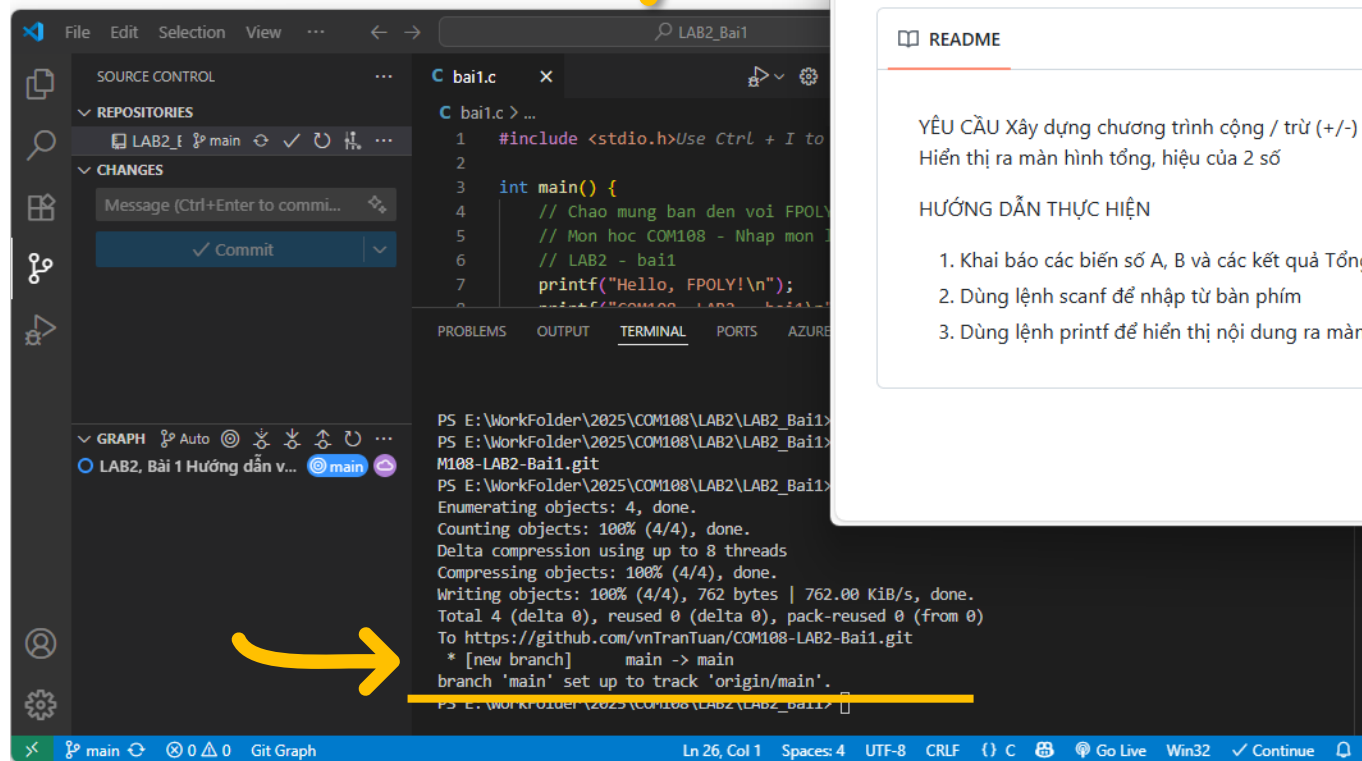
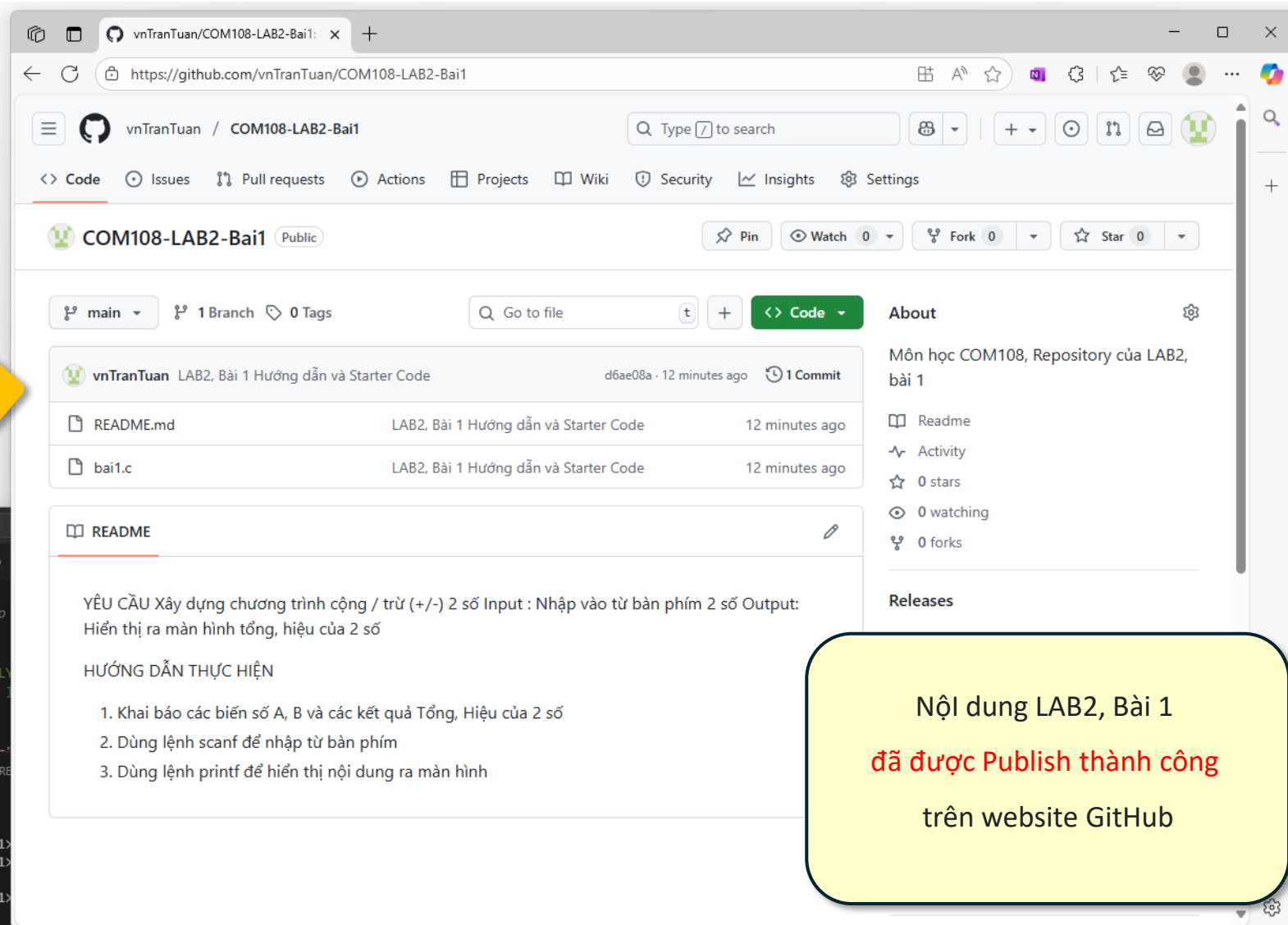
6

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



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

Nội dung

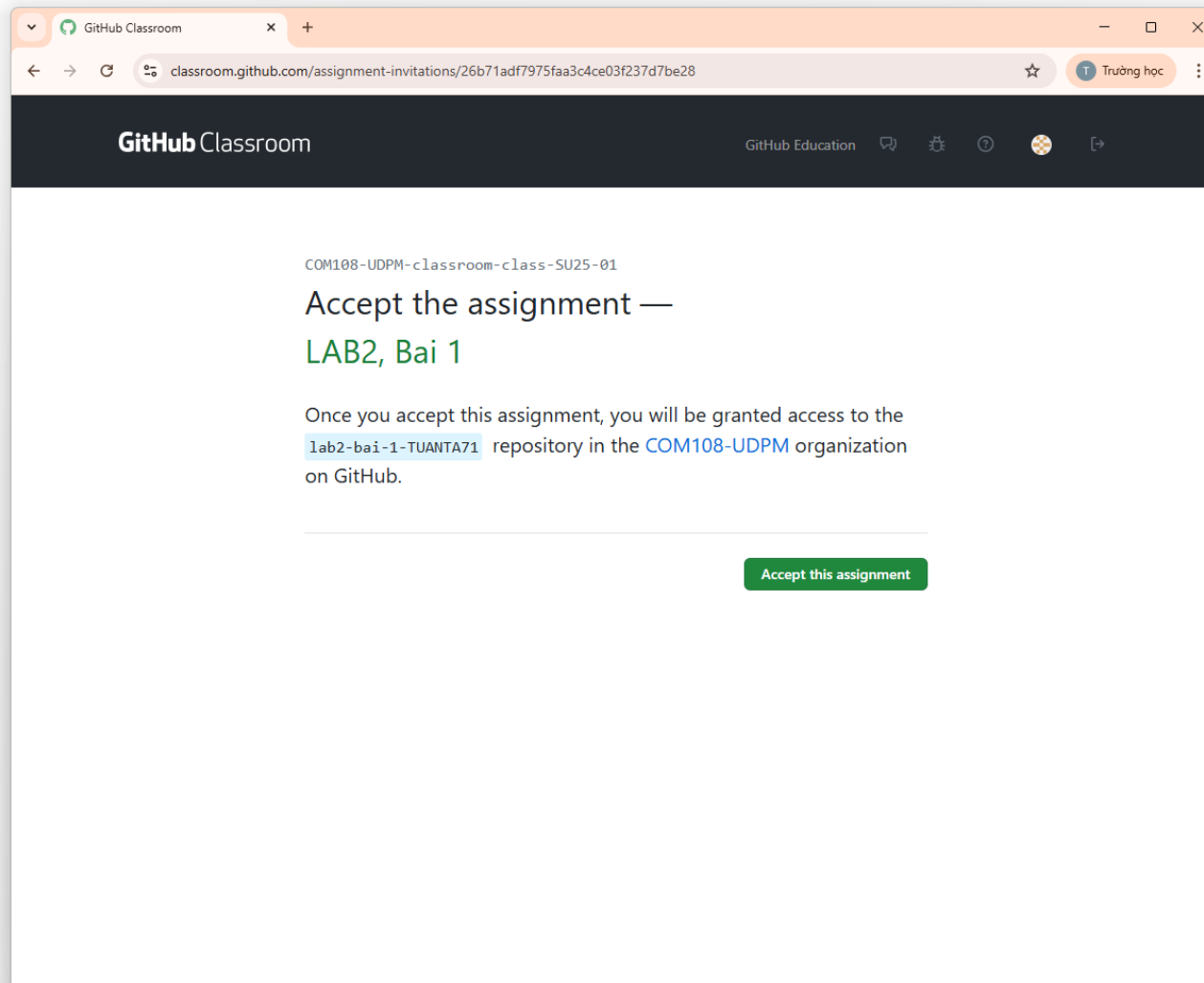
Student work

C

Git basic

Join class – Do homework – Submit

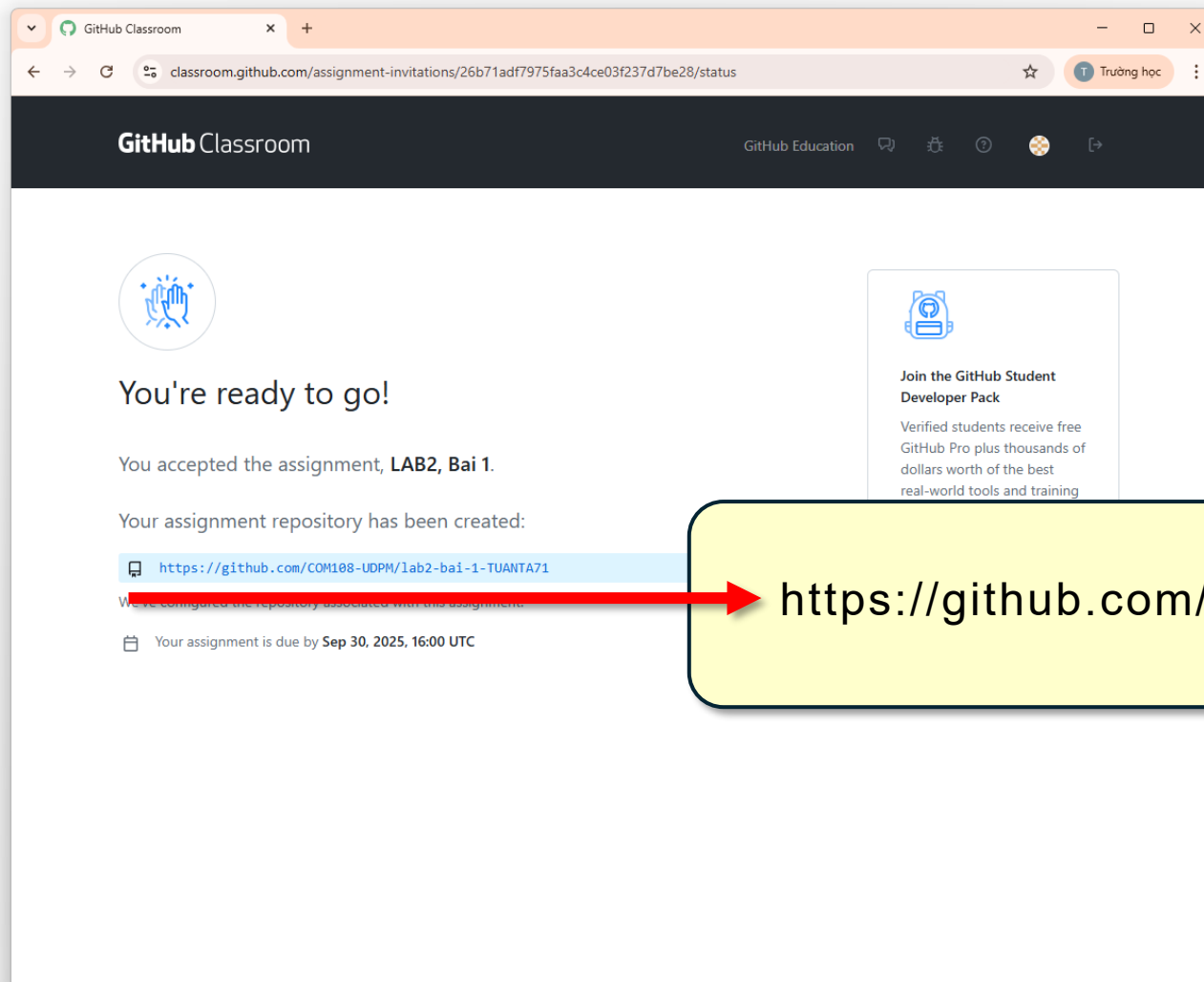
Student work – Join & Accept assignment



Accept this assignment

Truy cập assignment link và
tham gia bài assignment

Student work – Join & Accept assignment



Accept this assignment

Hai thông tin đầu tiên

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

<https://github.com/COM108-UDPM/lab2-bai-1-TUANTA71> → <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

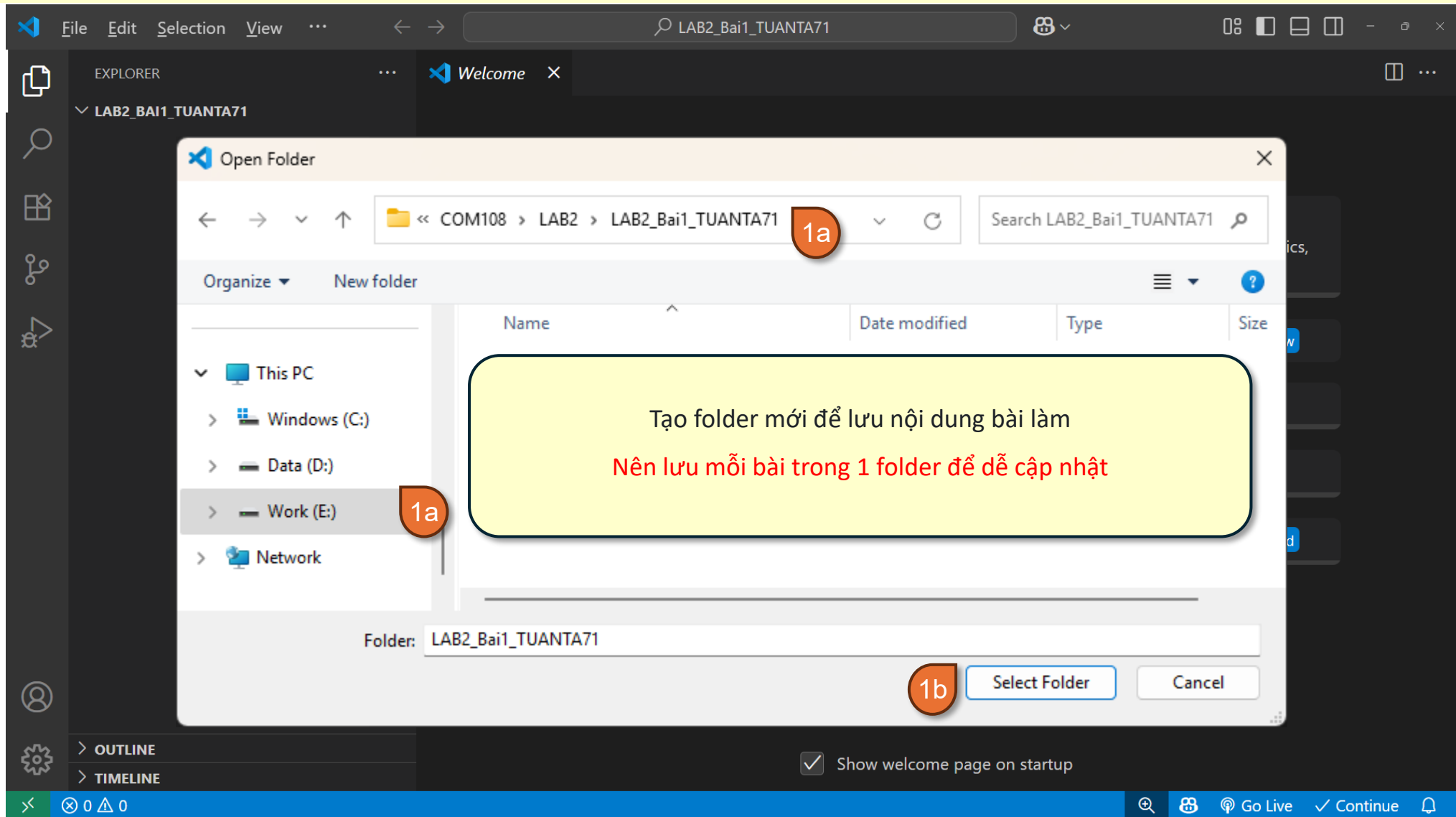
Chức năng quản lý cung cấp nhiều thông tin trong đó có những nội dung chính như :

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 a specific assignment titled 'LAB2, Bai 1'. The browser address bar shows the URL: <https://classroom.github.com/classrooms/227212486-com108-udpm-classroom-class-su25-01/assignments/lab2-bai-1>. The page header includes the GitHub Classroom logo and 'GitHub Education'. Below the header, the assignment title 'LAB2, Bai 1' is displayed, along with a link to the starter code: [Starter code from COM108-UDPM/com108-udpm-classroom-class-su25-01-lab2-bai-1-COM108-LAB2-Bai1](#). The assignment details section shows: 'Individual assignment', 'Due Sep 30, 2025, 16:00 UTC', 'Active' status, 'Sync assignments' button, a URL input field with 'https://classroom.github.com/a/XC20Phj9', 'No tests to run', 'Edit' button, and a 'Download' button. The 'Assignment Details' section provides a summary: 'Students total 2' (2 Rostered, 0 Added students), 'Accepted assignments 1' (1 Students), and 'Assignment submissions 1' (0 Submitted, 1 Not submitted). Below this is a 'Filters' section with a search bar and buttons for 'Filter by unlinked accounts', 'Filter by accepted', 'Filter by passing', and 'Sort'. The 'Classroom roster' section shows a table with one student, 'TuanTA71', who is 'Not submitted' and has '0 commits'. A 'Repository' link is also visible.



Student work – Create project folder





Student work – Clone Starter code

2b

https://github.com/COM108-UDPM/lab2-bai-1-TUANTA71

Clone from URL https://github.com/COM108-UDPM/lab2-bai-1-TUANTA71

Clone from GitHub

2a

Open Folder...

Clone Git Repository...

Connect to...

Get Started with C++ Deve... New

Clone Git Repository

Với URL của Repository Assignment

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

> OUTLINE

> TIMELINE

✓ Show welcome page on startup

Go Live Continue



Student work – Clone Starter code

The screenshot shows the Visual Studio IDE interface. The Explorer pane on the left shows a project named 'LAB2-BAI-1-TUANTA71' with files 'bai1.c' and 'README.md'. The main editor displays the content of 'bai1.c', which is a C program for calculating the sum and difference of two numbers. The Preview pane on the right shows the content of 'README.md', which contains the assignment requirements and instructions in Vietnamese.

```
#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
}
```

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



Student work – Do homework

The screenshot shows the Visual Studio IDE with a C++ file named `bai1.c` open. The code is a simple program that prints a greeting, prompts for two numbers, and calculates their sum. The output window shows the program's execution results.

```
#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
    printf("Moi ban nhap vao so A: ");
    int soA;
    scanf("%d", &soA);

    // Cac lenh nhap vao so B
    printf("Moi ban nhap vao so B: ");
    int soB;
    scanf("%d", &soB);

    // Cac lenh tinh tong cac so A, B
    int tong = soA + soB;
    printf("Tong hai so A va B la: %d", tong);

    return 0;
}
```

The output window displays the following text:

```
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>
```

On the right side of the IDE, there is a sidebar with a "Review the assignment due date" button and a section titled "YÊU CẦU" (Requirements) and "HƯỚNG DẪN THỰC HIỆN" (Implementation Guide).

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



Student work – Submit assignment

The screenshot shows the Visual Studio IDE with the following components:

- Source Control Panel (Left):**
 - REPOSITORIES:** Shows 'lab2-bai-1-TUANTA71' with a 'main' branch.
 - CHANGES:** Lists files to be committed: 'bai1.c', 'bai1.exe', 'README.md', and 'tasks.json'. A callout '3a' points to the commit icon, and '3b' points to the commit message field containing 'Nộp bài LAB2, bài 1, TUANTA71'.
 - GRAPH:** Shows the commit history with 'add deadline' and 'Initial commit'.
- Editor (Center):** Displays the C code for 'bai1.c'. The code includes headers, defines 'main()', and uses 'printf' and 'scanf' to calculate the sum of two numbers. Callout '3c' points to the 'Commit' button in the Source Control panel.
- Terminal (Bottom):** Shows the output of the program: 'Hello, FPOLY!', 'COM108, LAB2 - bai1', and the sum calculation results.
- Right Panel:** Contains a 'Preview README.md' tab and a 'Review the assignment due date' button. Below this, there are instructions in Vietnamese for the assignment.

Instructions in Vietnamese:

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

Callout Box:

Nhập nội dung “Commit” trước khi nộp bài
Ví dụ: Nộp bài LAB2, bài 1, TUANTA71



Student work – Submit assignment

The screenshot shows the Visual Studio IDE with the following components:

- SOURCE CONTROL:** Shows the repository 'lab2-bai-1-TUANTA71' with a 'main' branch. A 'Sync Changes 1 ↑' button is visible.
- GRAPH:** Shows a commit history with a 'Push' button highlighted by a yellow circle and a '4' in a red circle.
- Editor:** 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    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 }
```
- Terminal:** Shows the output of the program:

```
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>
```
- Preview README.md:** Shows a 'Review the assignment due date' button and the following text:

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 bubble with the text 'Push' points to the 'Push' button in the GRAPH section.

Push / Submit để nộp bài assignment



Assignment management

Assignment management

Giảng viên quan sát được

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

Submitted

Not submitted

Classroom roster

	TuanTA71	Submitted	Latest commit 10 minutes ago	1 commit
--	----------	-----------	--	--------------------------

Classroom

GitHub Education

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](#)

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

Sync assignments [https://classroom.github.com/a/XC20Phj9](#) No tests to run Edit Download

Assignment Details

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

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

Classroom roster

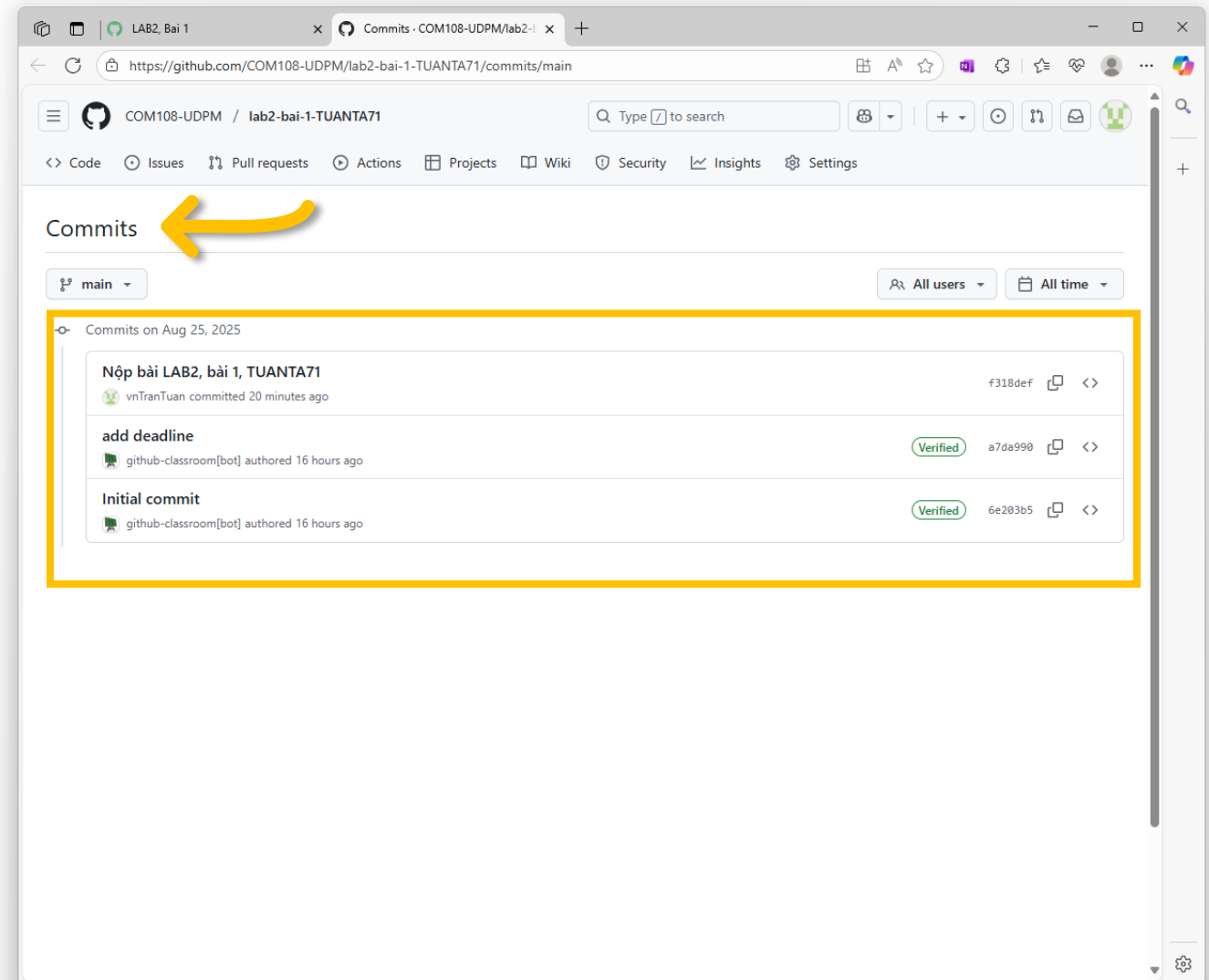
	huytv2211	Submitted	Latest commit 2 days ago	1 commit	Repository
	locthan2002	Not submitted	Link to student	0 commits	Repository
	Tqbinh1268	Submitted	Latest commit 2 days ago	1 commit	Repository
	TuanTA71	Submitted	Latest commit 3 weeks ago	1 commit	Repository




Assignment management

Assignment management

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



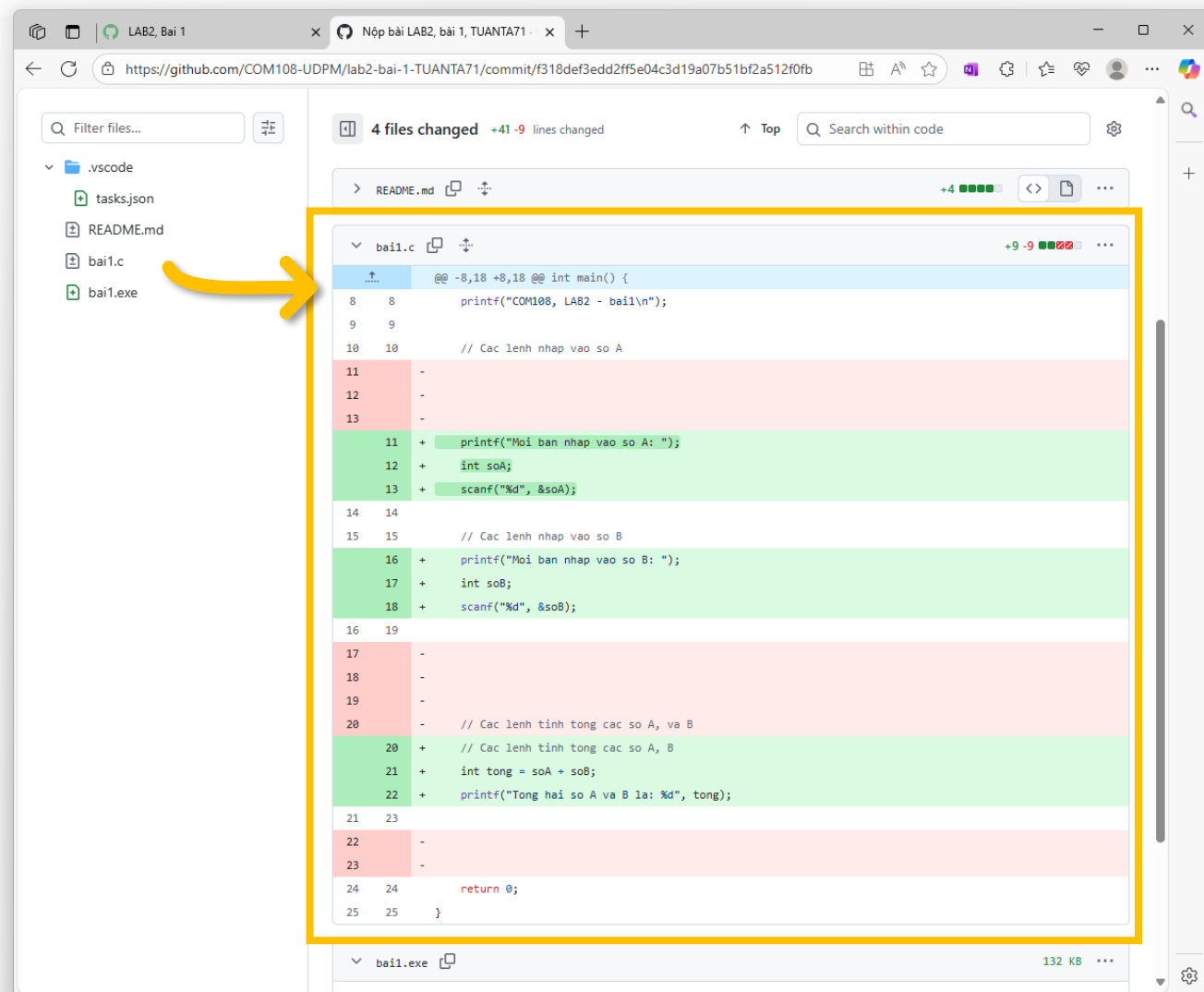


Assignment management

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 hash is 'f318def3edd2ff5e04c3d19a07b51bf2a512f0fb'. The page shows 4 files changed with a total of +41 lines added and -9 lines removed. The file list on the left includes '.vscode', 'tasks.json', 'README.md', 'bai1.c', and 'bai1.exe'. A yellow arrow points from 'bai1.c' to the diff view on the right. The diff view shows changes to 'bai1.c', with lines 11-13, 16-18, 20-22, and 24-25 highlighted in green (indicating additions) and lines 8-10, 12-14, 17-19, and 21-23 highlighted in red (indicating deletions). The code is as follows:

```
@@ -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 -
11 +     printf("Moi ban nhap vao so A: ");
12 +     int soA;
13 +     scanf("%d", &soA);
14 14
15 15     // Cac lenh nhap vao so B
16 +     printf("Moi ban nhap vao so B: ");
17 +     int soB;
18 +     scanf("%d", &soB);
19 19
20 -
21 - // Cac lenh tinh tong cac so A, va B
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 23
24 24     return 0;
25 25 }
```

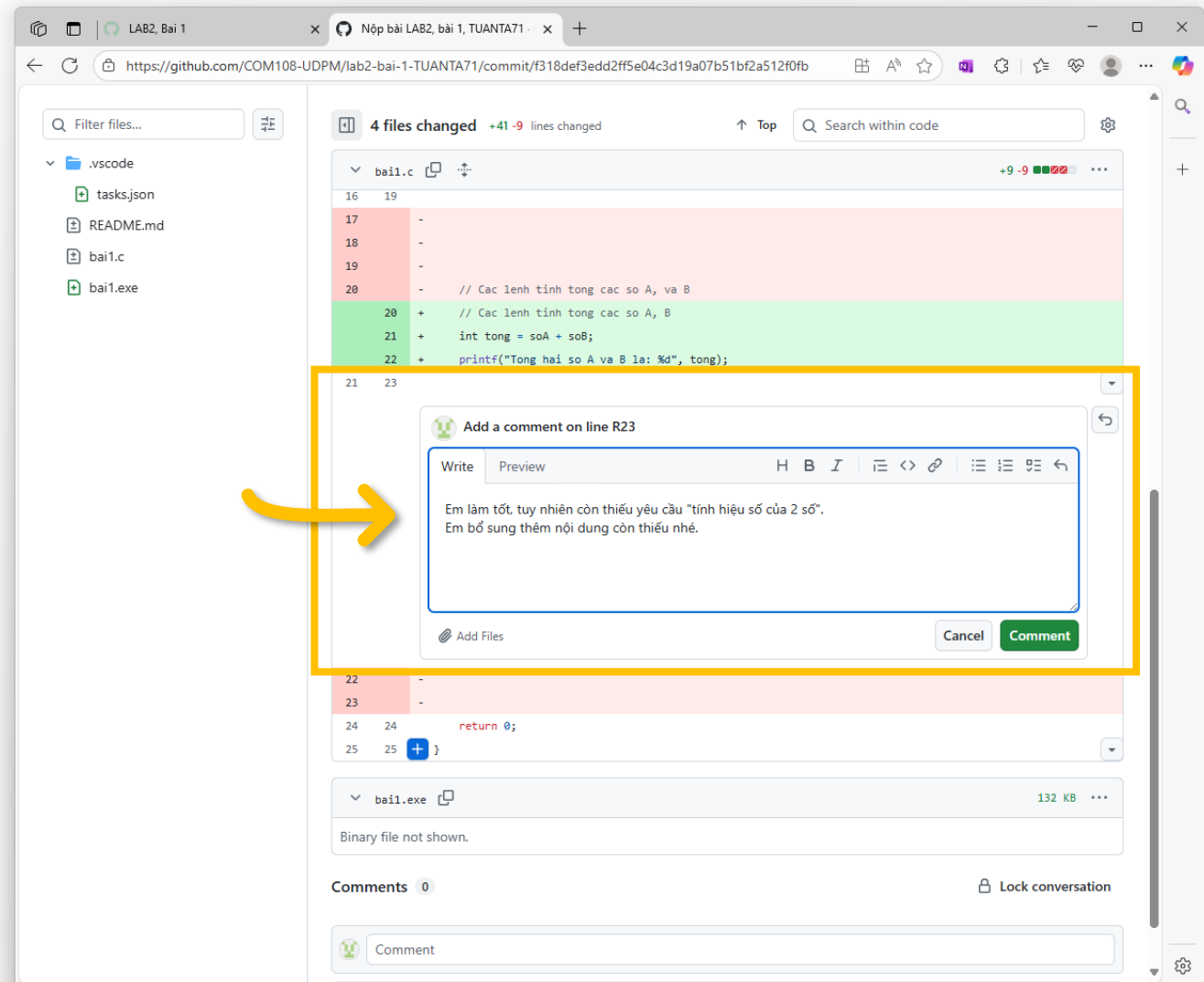


Assignment management

Assignment management

Giảng viên “**feedback / comment**”

4. Nội dung chi tiết của bài làm





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 repository named 'COM108-UDPM/lab2-bai-1-TUANTA71'. The commit message is 'Nộp bài LAB2, bài 1, TUANTA71'. The commit details show 4 files changed and 41 lines added. The files listed are .vscode, tasks.json, README.md, bai1.c, and bai1.exe. The code diff for bai1.c shows a change on line 23, where a comment is added: 'Em làm tốt, tuy nhiên còn thiếu yêu cầu "tính hiệu số của 2 số". Em bổ sung thêm nội dung còn thiếu nhé.' Below the code diff, there is a comment section. A comment by user 'vnTranTuan' is shown, with the text: 'Em làm tốt, tuy nhiên còn thiếu yêu cầu "tính hiệu số của 2 số". Em bổ sung thêm nội dung còn thiếu nhé.' At the bottom of the page, there is a 'Write a comment' section. A yellow box highlights this section, and a yellow arrow points to it. The text in the comment box is: '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'.



Student work – View feedback / comment

The screenshot displays a GitHub Classroom interface. The top navigation bar shows the repository path: `COM108-UDPM / lab2-bai-1-TUANTA71`. Below this, the 'Commits' section is visible, showing a list of commits for the file `bai1.c` on the `main` branch. The most recent commit is titled 'Nộp bài LAB2, bài 1, TUANTA71' by user `vnTranTuan`, committed 3 hours ago. A yellow circle highlights the comment icon (speech bubble with '2') next to this commit. An orange arrow points from this icon to the right-hand side of the image, which shows a detailed view of the code diff for the selected commit. The diff view shows changes to `bai1.c` and `bai1.exe`. The `bai1.c` diff shows a change in the `return` statement from `return 2;` to `return 3;`. The `bai1.exe` diff shows a binary file that is 132 KB in size. Below the diff view, there is a 'Comments' section with one comment from `vnTranTuan` 11 minutes ago, stating: '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'. A yellow box at the bottom left contains the text: 'Sinh viên xem nội dung “feedback / comment”'.

COM108-UDPM / lab2-bai-1-TUANTA71

Code Issues Pull requests Actions Projects W

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 2
- Initial commit**
github-classroom[bot] authored 19 hours ago

Sinh viên xem nội dung “feedback / comment”

4 files changed +41 -9 lines changed

bai1.c

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.

Write a reply

```
22 -  
23 -  
24 24      return 0;  
25 25      }
```

bai1.exe 132 KB

Binary file not shown.

Comments 1

Lock conversation

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

Comment

Subscribe You're not receiving notifications from this thread.

HẾT



GitHub - Classroom