

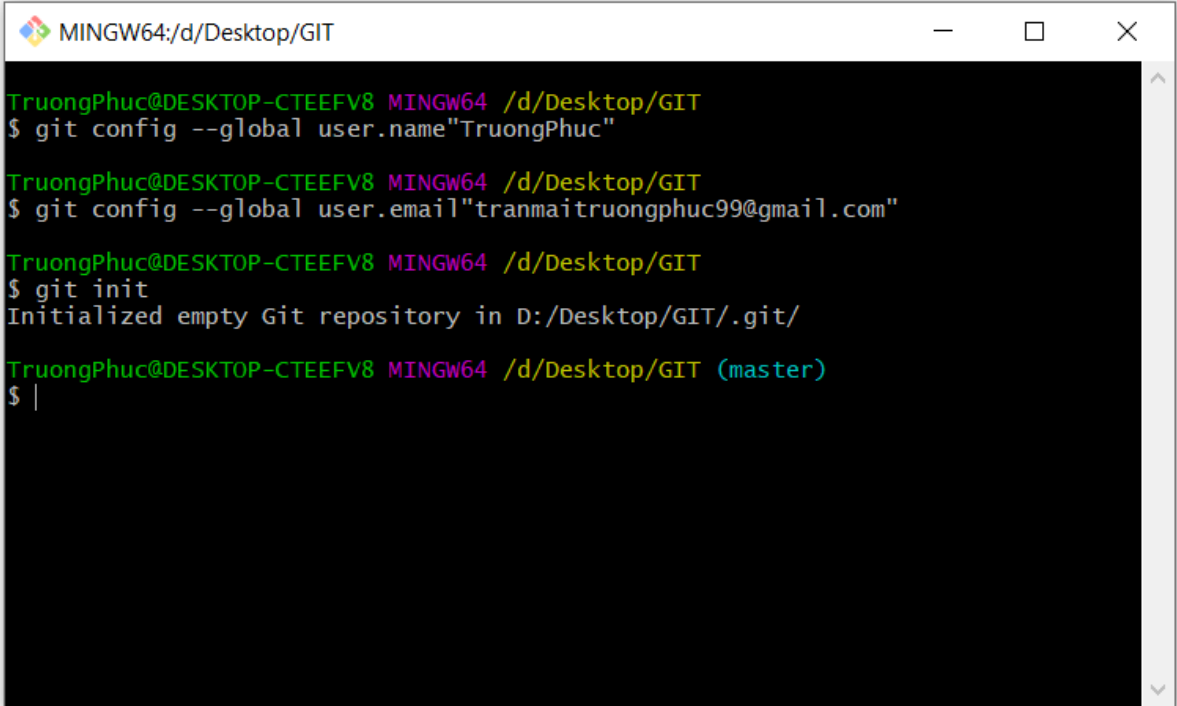
1. Cấu hình GIT



```
MINGW64:/d/Desktop/GIT
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT
$ git config --global user.name"TruongPhuc"
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT
$ git config --global user.email"tranmaitruongphuc99@gmail.com"
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT
$ |
```

2. Lệnh tạo repo mới

Name	Date modified	Type	Size
.git	13/01/2021 12:38 CH	File folder	



The screenshot shows a Windows command prompt window titled "MINGW64:/d/Desktop/GIT". The user, TruongPhuc, is at the desktop directory. They execute the following commands:

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT
$ git config --global user.name"TruongPhuc"

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT
$ git config --global user.email"tranmaitruongphuc99@gmail.com"

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT
$ git init
Initialized empty Git repository in D:/Desktop/GIT/.git/

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT (master)
$ |
```

3. Clone repo từ GitHub về máy

B1: Tạo repo mới trên github

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *



Panda0503

Repository name *

GIT



Great repository names are short and memorable. Need inspiration? How about [super-train?](#)

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

☐ Add .gitignore

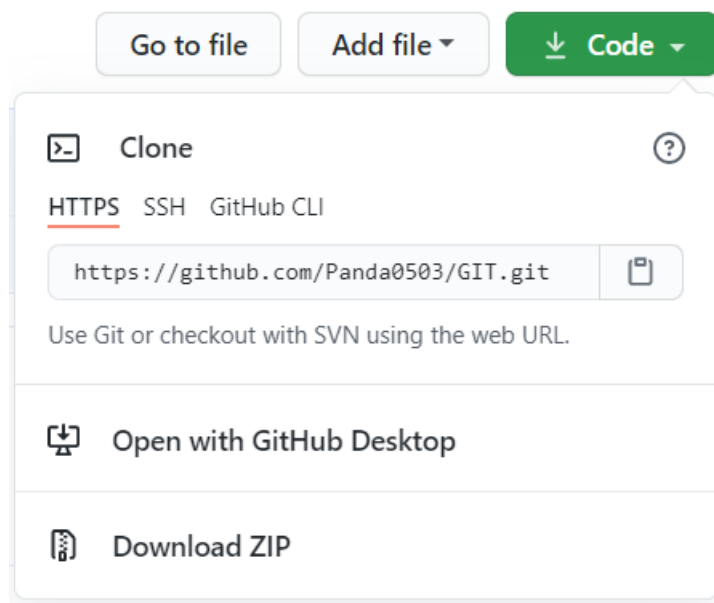
Choose which files not to track from a list of templates. [Learn more.](#)

☐ Choose a license

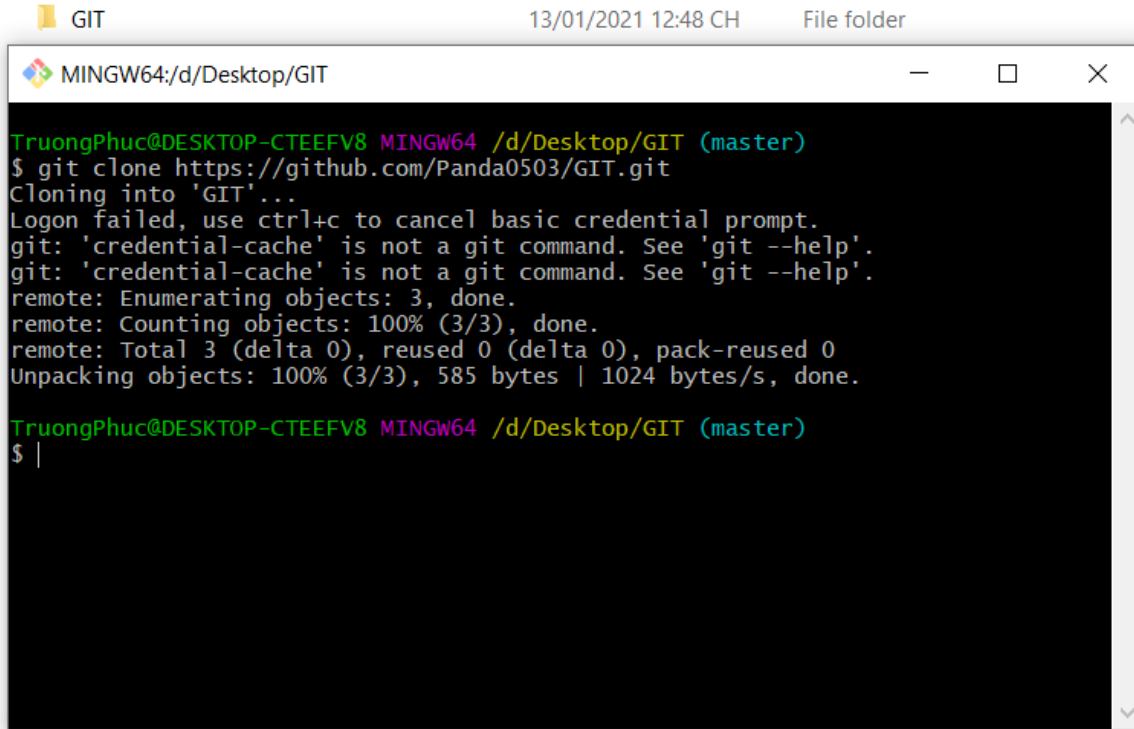
A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository

B2: Copy đường dẫn http của repo vừa tạo



B3: Clone về máy






```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT (master)
$ git clone https://github.com/Panda0503/GIT.git
Cloning into 'GIT'...
Logon failed, use ctrl+c to cancel basic credential prompt.
git: 'credential-cache' is not a git command. See 'git --help'.
git: 'credential-cache' is not a git command. See 'git --help'.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 585 bytes | 1024 bytes/s, done.


TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT (master)
$ |
```

4. Lệnh Commit file

B1: Tạo 1 file .txt

 .git	13/01/2021 12:48 CH	File folder	
 README	13/01/2021 12:48 CH	MD File	1 KB
 TruongPhuc	13/01/2021 12:50 CH	Text Document	0 KB

B2: Add file vào workingcopy và “ghi chú” commit lên staging



The screenshot shows a Windows terminal window with a title bar that reads "MINGW64:/d/Desktop/GIT/GIT". The terminal has a black background with green and white text. The prompt is "TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)". The first command entered is "\$ git add TruongPhuc.txt". The second command is "\$ git commit -m'Hello'". The output of the commit command is shown: "[main 3d4d1cd] Hello", "1 file changed, 0 insertions(+), 0 deletions(-)", and "create mode 100644 TruongPhuc.txt".

```
MINGW64:/d/Desktop/GIT/GIT

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git add TruongPhuc.txt


TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git commit -m"Hello"
[main 3d4d1cd] Hello
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 TruongPhuc.txt
```

5. Push file lên remote repo

A screenshot of a GitHub repository page for 'Panda0503 / GIT'. The repository is marked as 'Private'. The top navigation bar includes links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Security', 'Insights', and 'Settings'. Below this, the repository's main branch is 'main', with '1 branch' and '0 tags' indicated. There are three buttons: 'Go to file', 'Add file', and 'Code'. The commit history shows two commits: 'Panda0503 Hello' (3d4d1cd, 3 minutes ago, 2 commits) and 'README.md' (Initial commit, 12 minutes ago). Below the commit history, a terminal window is open, showing the commands used to create and push the repository: 'git add TruongPhuc.txt', 'git commit -m"Hello"', and 'git push origin main'. The terminal output shows the commit details and the push progress.

6. Phục hồi về một phiên bản trước

Kiểm tra danh sách các phiên bản:

 MINGW64:/d/Desktop/GIT/GIT

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git log
commit 7606488d38a8997caaa86f569eef846b79de1bff (HEAD -> main, origin/main, origin/HEAD)
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 13:23:22 2021 +0700

    hello everyone

commit 775501789bcc4dedca2cdf8b2d602bb9577ee9af
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 13:20:34 2021 +0700

    Hello lan 2

commit 75744c393b4662deac6a6ca774f66169ea59ad09
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 13:18:01 2021 +0700

    Revert "Hello"

    This reverts commit 3d4d1cdc7acfe0618ec5eeef10efb62aa17d7820.

commit 3d4d1cdc7acfe0618ec5eeef10efb62aa17d7820
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
: ...skipping...
commit 7606488d38a8997caaa86f569eef846b79de1bff (HEAD -> main, origin/main, origin/HEAD)
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 13:23:22 2021 +0700

    hello everyone

commit 775501789bcc4dedca2cdf8b2d602bb9577ee9af
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 13:20:34 2021 +0700

    Hello lan 2

commit 75744c393b4662deac6a6ca774f66169ea59ad09
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 13:18:01 2021 +0700

    Revert "Hello"

    This reverts commit 3d4d1cdc7acfe0618ec5eeef10efb62aa17d7820.

commit 3d4d1cdc7acfe0618ec5eeef10efb62aa17d7820
Author: Truong Phuc <tranmaitruongphuc99@gmail.com>
Date: Wed Jan 13 12:55:00 2021 +0700

    Hello

commit aecfa42a631db55495e68f09f4d4c267df58cf58
Author: Panda0503 <69638615+Panda0503@users.noreply.github.com>
Date: Wed Jan 13 12:45:49 2021 +0700

    Initial commit
```

Dùng câu lệnh “git revert HEAD” để revert lại phần commit trước hoặc có thể check git log lấy mã commit để revert theo mã commit:

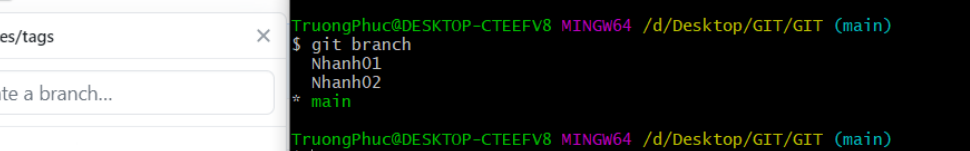
```
MINGW64;d/Desktop/GIT/GIT
Revert "hello everyone"

This reverts commit 7606488d38a8997caaa86f569eef846b79de1bff.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#   deleted:    TruongPhucDepTrai.txt
#
~
~
~
~
~
~
~
D:/Desktop/GIT/GIT/.git/COMMIT_EDITMSG [unix] (13:29 13/01/2021) 1,1 All
"D:/Desktop/GIT/GIT/.git/COMMIT_EDITMSG" [unix] 13L, 357C
```

7. Tạo nhánh, Xóa nhánh

Tạo nhánh:



The screenshot shows a Windows terminal window with the title bar "MINGW64:d:/Desktop/GIT/GIT". The terminal output is as follows:

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git branch
  Nhanh01
  Nhanh02
* main

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ |
```

On the left side of the terminal window, there is a sidebar with the following elements:

- A top bar with "main" (selected), "3 branches", and "0 tags".
- A section titled "Switch branches/tags" with a close button (X).
- A search input field labeled "Find or create a branch...".
- Two tabs: "Branches" (selected) and "Tags".
- A list of branches: "main" (checked), "Nhanh01", and "Nhanh02". The "main" branch is marked as "default".
- A link labeled "View all branches".

Xóa nhánh:



The screenshot shows a Windows terminal window with the title bar "MINGW64:/d/Desktop/GIT/GIT". The terminal displays the following sequence of commands and output:

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git branch
  Nhanh01
  Nhanh02
* main

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git branch -d Nhanh01
Deleted branch Nhanh01 (was c6088f2).

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git branch
  Nhanh02
* main

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$
```

8. Chuyển đổi giữ các nhánh

```
MINGW64:/d/Desktop/GIT/GIT
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git branch
  Nhanh02
* main


TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git checkout Nhanh02
Switched to branch 'Nhanh02'


TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (Nhanh02)
$ git branch
* Nhanh02
  main


TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (Nhanh02)
$
```

9. Gộp nhánh

Nhánh main:


 main ▾



 3 branches



 0 tags

Go to file


Add file ▾


 Code ▾


 Panda0503 Revert "hello everyone" ... c6088f2 1 hour ago  6 commits

 README.md	Initial commit	2 hours ago
 TruongPhuc.txt	Hello lan 2	1 hour ago

Nhánh02:


 Nhanh02 ▾



 3 branches



 0 tags




Go to file

Add file ▾

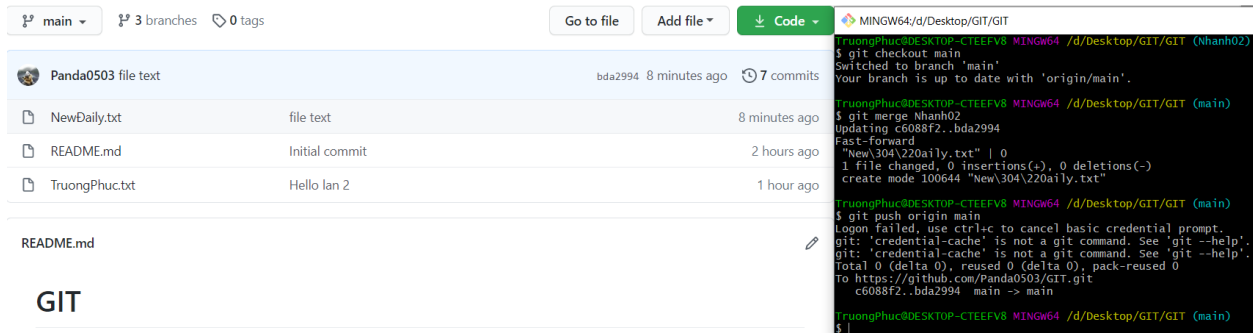
 Code ▾

This branch is 1 commit ahead of main.  Pull request  Compare

 Panda0503 file text bda2994 3 minutes ago  7 commits

 NewDaily.txt	file text	3 minutes ago
 README.md	Initial commit	2 hours ago
 TruongPhuc.txt	Hello lan 2	1 hour ago

Gộp nhánh 02 vào main:



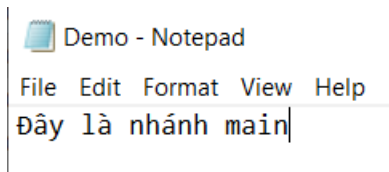
```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (Nhanh02)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git merge Nhanh02
Updating c6088f2..bda2994
Fast-forward
 "New\304\220aily.txt" | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 "New\304\220aily.txt"

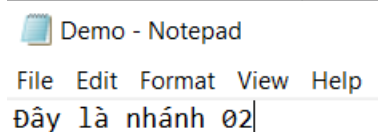
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git push origin main
Logon failed, use ctrl+c to cancel basic credential prompt.
git: 'credential-cache' is not a git command. See 'git --help'.
git: 'credential-cache' is not a git command. See 'git --help'.
total 0 (delta 0), reused 0 (delta 0), pack-reused 0
to https://github.com/Panda0503/GIT.git
c6088f2..bda2994 main -> main
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$
```

10.Lệnh merge trong trạng thái xung đột

- Giả thiết, có 2 nhánh: **main** và **Nhanh02**. Ở nhánh **Nhanh02**, ta thực hiện chỉnh sửa Demo.txt. Sau đó thực hiện commit.



- Ở nhánh **main**, ta thực hiện chỉnh sửa Demo.txt.



- Sau khi chỉnh sửa, ta thực hiện merge từ nhánh **Nhanh02**. Lúc này, git sẽ thông báo bắt buộc phải commit file đã chỉnh sửa ở nhánh **main**.

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git merge Nhanh02
error: Your local changes to the following files would be overwritten by merge:
  Demo.txt
Please commit your changes or stash them before you merge.
Aborting

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$
```

- Sau khi commit chỉnh sửa từ nhánh **main**, ta thực hiện merge lại file từ nhánh **Nhanh02**. Lúc này, git sẽ thông báo xung đột ở Demo.txt.

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git merge Nhanh02
CONFLICT (add/add): Merge conflict in Demo.txt
Auto-merging Demo.txt
Automatic merge failed; fix conflicts and then commit the result.
```

- Ta tiến hành chỉnh chỉnh sửa Demo.txt

```
Demo - Notepad
File Edit Format View Help
|<<<<<< HEAD
|Đây là nhánh 02
|=====
|Đây là Nhánh02
|>>>>>> Nhanh02
```

- Sau khi chỉnh sửa, ta thực hiện commit và push lên remote repo:

```
TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main|MERGING)
$ git commit -m"update sau khi conflict tu nhanh 02"
[main a39b0c7] update sau khi conflict tu nhanh 02

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ git push origin main
Logon failed, use ctrl+c to cancel basic credential prompt.
git: 'credential-cache' is not a git command. See 'git --help'.
git: 'credential-cache' is not a git command. See 'git --help'.
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 883 bytes | 883.00 KiB/s, done.
Total 9 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/Panda0503/GIT.git
   bda2994..a39b0c7  main -> main

TruongPhuc@DESKTOP-CTEEFV8 MINGW64 /d/Desktop/GIT/GIT (main)
$ |
```