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Section	BSCS 8th A
Course	Introduction to DevOps
Instructor	Tariq Khan Ghouri

GitHub Assignment

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Step 3:

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Required fields are marked with an asterisk (*).

Owner *   **Repository name ***

Umer-Amir ▾ **/** git-practice

✅ git-practice is available.

Great repository names are short and memorable. Need inspiration? How about **curly-engine** ?

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:

☑ **Add a README file**
   This is where you can write a long description for your project. Learn more about READMEs.

Add .gitignore

.gitignore template: **None** ▾

Choose which files not to track from a list of templates. Learn more about ignoring files.
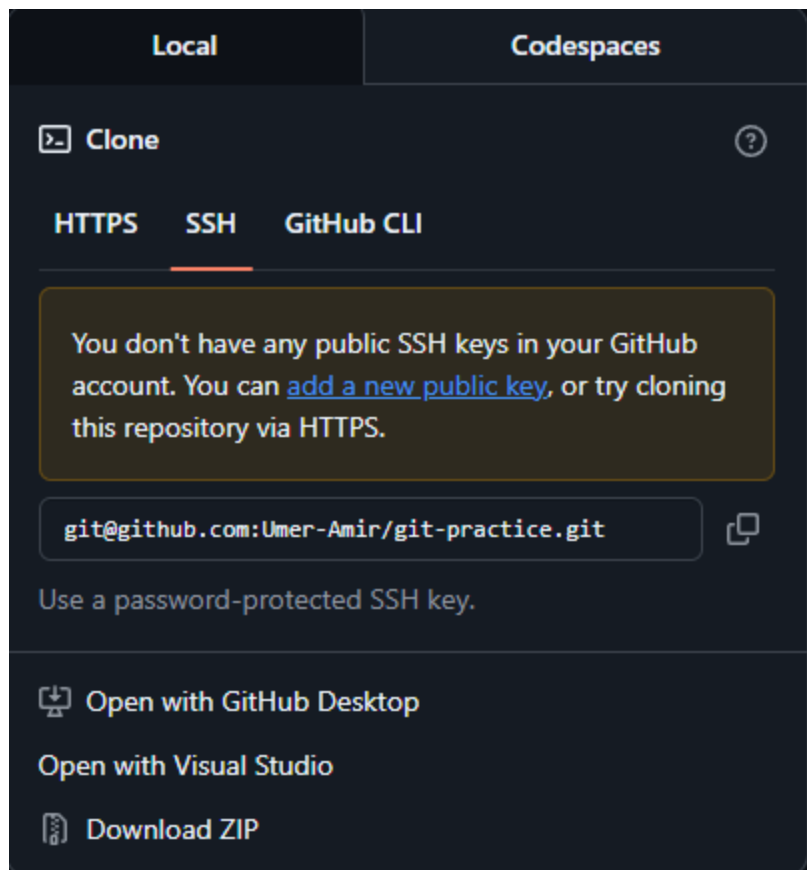
Choose a license

License: **None** ▾

A license tells others what they can and can't do with your code. Learn more about licenses.

This will set 🎋 `main` as the default branch. Change the default name in your settings.

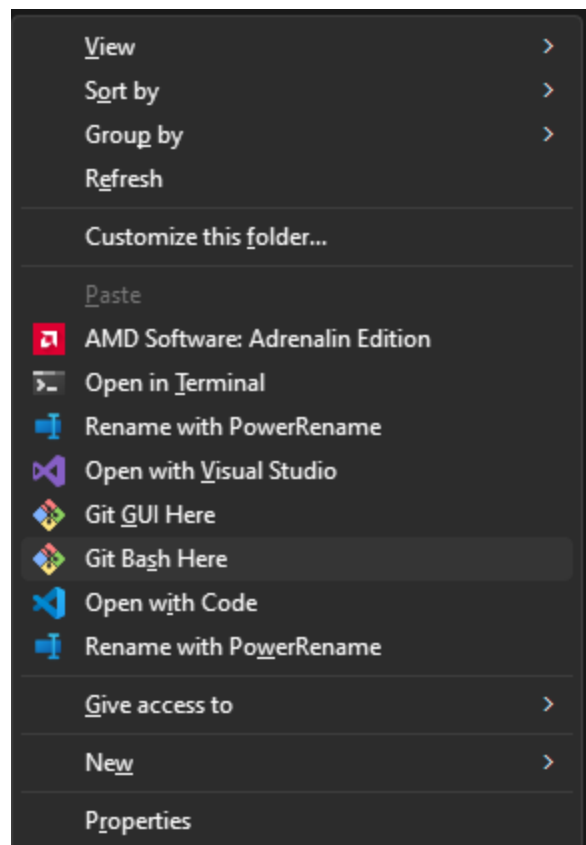ⓘ You are creating a public repository in your personal account.

Create repository

🔒 github.com/Umer-Amir/git-practice

Step 4:

View >
Sort by >
Group by >
Refresh

Customize this folder...

Paste

AMD Software: Adrenalin Edition
Open in Terminal
Rename with PowerRename
Open with Visual Studio
Git GUI Here
Git Bash Here
Open with Code
Rename with PowerRename

Give access to >

New >

Properties

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ ssh-keygen -C test
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/umera/.ssh/id_rsa):
/c/Users/umera/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/umera/.ssh/id_rsa
Your public key has been saved in /c/Users/umera/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:6EuKvZihcOPaUNV4dHkhlKvipYKyBVLpkS88EMlbq6U test
The key's randomart image is:
+---[RSA 3072]----+
|o.   +..+o..     |
|.o +o o.o..      |
|. B...   o       |
| *.=   ..        |
|o.O . ..S        |
|oE.o..o          |
| *o. +o          |
|=o=*oo .         |
|+++o+..          |
+----[SHA256]-----+
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ ^C
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ cat /c/Users/umera/.ssh/id_rsa
-----BEGIN OPENSSH PRIVATE KEY-----
```
```
b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAABAAABlwAAAAdzc2gtcn
NhAAAAAwEAAQAAAYEAsS5Jlkug0Chd/wk6dF35cQq04BivOwnqK5lVLNCZOEkGJnlvdjOP
2clW95eo+pPVD3Pd4NpZNbe08OWi/QtBDYfAzMflIFD6xaeLIt9Fzf1yQo3uqO2Irg0dZe
zErMp/WlWwPl61URcnLNjIcxoFuALKJcyGRQDPumOnOUV9+DrXs9zFfvAIm9gV/jsC74r7
DRJJ8OcL7hosq2CZMELu/O6tu5y+ZsUdylietbkHtz2BxQOAY8BFOW16gbiCZtea5VaIrM
KV6LMcenoot6POfiLkuDQUVpWEO3/LPWF76vZkJOW3Ml9TwjPQG1yhHgEpbQ2O9AnSOefP
HDof49Vq9fR4f2/theuPdeYX11/K1+K2NNbYAOGOWlfQGxWDpLAURrUSGZlxReM92oD2iv
xaHCBoVABO7aePquyMjkadwfCtsrSY4cdOoO9rXs/bd6HYLkgafUzNKpellOJwRMZDr8MW
8qWADP3ZG4N8rfxYJsKa3CwPUH9Fu9hLZx3/JZ3hAAAFgDBZGLUwWRi1AAAAB3NzaC1yc2
EAAAGBALEuSZZLoNAoXf8JOnRd+XEKtOAYrzsJ6iuZVSzQmThJBiZ5b3Y9D9nJVveXqPqT
1Q9z3eDaWTW3tPDlovOLQQ2HwMzH5SBQ+sWniyLfRc39ckKN7qjtiK4NHWXsxKzKf1pVsD
5etVEXJyzYyHMaBbgCyiXMhkUAz7pjpzlFffg617PcxX7wCJvYFf47Au+K+wOSSfDnC+4a
LKtgmTBC7vzurbucvmbFHcpYnrW5B7c9gcUDgGPARTlteoG4gmbXmuVWiKzCleizHHp6KL
ej9H4i5LgOFFaVhDt/yz1he+r2ZCdFtzJfU8IzOBtcoR4BKWONtPQJOjnnzxw6H+PVavXO
eH9v7YXrj3XmF9dfytfitjTW2ADhjlpXOBsVg6SwFEa1EhmZcUXjPdqA9or8WhwgaFQAdO
2nj6rsjI5GncHwrbKOmOHHdKDva17P23eh2C5IGn1MzSqXpZTicETGQ6/DFvKlgAz92RuD
fK38WCbCmtwsD1B/RbvYS2cd/yWd4QAAAMBAAEAAAGAChLFoEPgerUwOuUla6REIEcpjW
wZ2lNv+taW3xtk+qw8KOfQLHrAQfOOfDk1JEnvXReLT9NaKxGsud10bMqNAkXrkjjzL+kq
uL4TzQHAqDt2mY4UOYp3sN2SBE93xxMkNnCUupcL2/ZjBcu1acXa+WE/OPLt11J6fPBZe4
oV5VODEnjEybi/5Ixeg7u7KP9POqhth8K7DOhODbJKQ1Iq4Dp5qib5NEKUtQJg05gXdjWL
ATZ3wDQYO3Gb+3AQCeTME2MCFXTFJmWq9eW3JqxVOVTzsQ2ERpwXVpD4n/zR2TITjj/DCk
1NS6CpIDFAvWuYn/u3koqpljuyqhAiERmyj+NoS9suOW6HBITZRd8UoytL9yfIh3cByXBo
I87WuHErfXiMdNivIE9pw3rQluY8VsLyhT7k0TdfMmmHHT99JTFibqZmq6mnLeivBxoWNQ
CEwfKc8gADoHx296rnVx39DESfqohvhs2mL+gjixRFJNNFFvQ/mSbQ6dzDEgOXYi4BAAAA
wHoXxthE/OE7a2X41yrkYAXQujliG+iG1eYjhDHpY1rkE7RJ3n1MUDamPlk7oZH5ckDKtW
U6Cqw5FUCQaQuZeFaxF4p+UwmfPADDmpAgFSgTFcLZkQjKLtYXE355ooizSNzKTedpMCWx
guUnLiG3xQOG7IESRT28TcCSX6GjMOELM8H55MEwEfEVqrTSjDP+NXi56+fmtknOa4+PFm
8LiJhKhqAxfhHoKEYe9X91EIONMTTHySNQSnNEigLb2qm9PgAAAMEA5Hgv8G1QMBnAH2pk
9yBzAEfOk/DoaxlvWyjDiJom7AozZJH5UwxzfcSk9uukLyeC3qrN2QiGsFNHkAaq6gGOhC
UjAOspYgC1xOomWjveaFz4zjSUiD5mOA7R4FFJqFHo2jBweyCpOG/hpVQ57dnOLLuKXsu7
EMX6jKDdcaGPyquyJYplUE10Vz7/XzGg+03g8GDCgEqv9S8u9sQZsV2uYCPEwavFF4LsQj
oGc4ahTywu1wpwDP81rneODXbONR7xAAAAwQDGh/NLC9ovIU5eln6bT2SFOP7YMKq+QCxU
KF2F9YOT4huTnc3x/QVODmDP6A+TLDuKYLwT1+zMaXUmmSIrLMpVpHLQUKPxiCg11R8Pde
yOTrJgd6/xCvPXop156L3zlLom2N7PLMtIOeqkttTOnDWSRvXauby9rOzNcneLOHiwU/yC
zTg8ZVTTqTZI64B9yihEIWhvi2pDR8vxH+r67SzcFKOUP86GGFUJxXIo4kFHacTF94kucp
d+oLLqtwYlTfEAAAAEdGVzdAECAwQFBgc=
```
```
-----END OPENSSH PRIVATE KEY-----
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ |
```

Add new SSH Key

Title

test

Key type

Authentication Key ≑

Key

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABgQCxLkmWS6DQKF3/CTp0XfIxCrTgGK87CeormVUs0Jk4SQYmeW92PQ/ZyVb3I6j6k9UPc93g2Ik1t7Tw5aL9CD
ENh8DMx+UgUPrFp4si30XN/XJCje6o7YiuDR1I7MSsyn9aVbA+XrVRFycs2MhzGgW4AsoIzIZFAM+6Y6c5RX34Otez3MV+8Aib2BX+OwLvivsNEknw5
wvuGiyrYJkwQu787q27nL5mxR3KWJ61uQe3PYHFA4BjwEU5bXqBuUm15rIVoiswpXosxx6eii3o/R+IuS4NBRWIYQ7f8s9YXvq9mQnRbcyX1PCM9AbXK
EeASItDbT0CdI5588cOh/j1Wr19Hh/b+2F64915hfXX8rX4rY01tgA4Y5aV9AbFYOksBRGtRIZmXFF4z3agPaK/FocIGhUAHTtp4+q7IyORp3B8K2ytUjhx3S
g72tez9t3odguSBp9TM0qI6WU4nBExkOvwxbypYAM/dkbg3yt/FgmwprcLA9Qf0W72EtnHfBIneE= test

[Add SSH key]

Local	Codespaces

>_ Clone   ⑦

HTTPS   **SSH**   **GitHub CLI**

```
git@github.com:Umer-Amir/git-practice.git        ⧉
```

Use a password-protected SSH key.

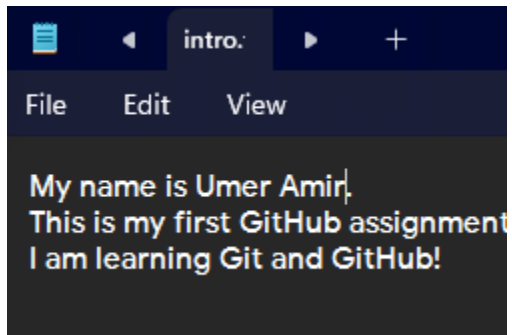
🖳 Open with GitHub Desktop

Open with Visual Studio

▤ Download ZIP

```
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ git clone git@github.com:Umer-Amir/git-practice.git
Cloning into 'git-practice'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ |
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment (master)
$ cd git-practice/
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ |
```

Step 5:

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ echo >intro.txt
(base)
```



```
intro.

File    Edit    View

My name is Umer Amir.
This is my first GitHub assignment
I am learning Git and GitHub!
```

Step 6:

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        intro.txt

nothing added to commit but untracked files present (use "git add" to track)
(base)
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ git add intro.txt
warning: in the working copy of 'intro.txt', LF will be replaced by CRLF the nex
t time Git touches it
(base)
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ git commit -m "Added intro.txt with a short introdduction:
> "
[main ee2b832] Added intro.txt with a short introdduction:
 1 file changed, 3 insertions(+)
 create mode 100644 intro.txt
(base)
```

Step 7:

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 380 bytes | 380.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:Umer-Amir/git-practice.git
   e1363bf..ee2b832  main -> main
(base)
```
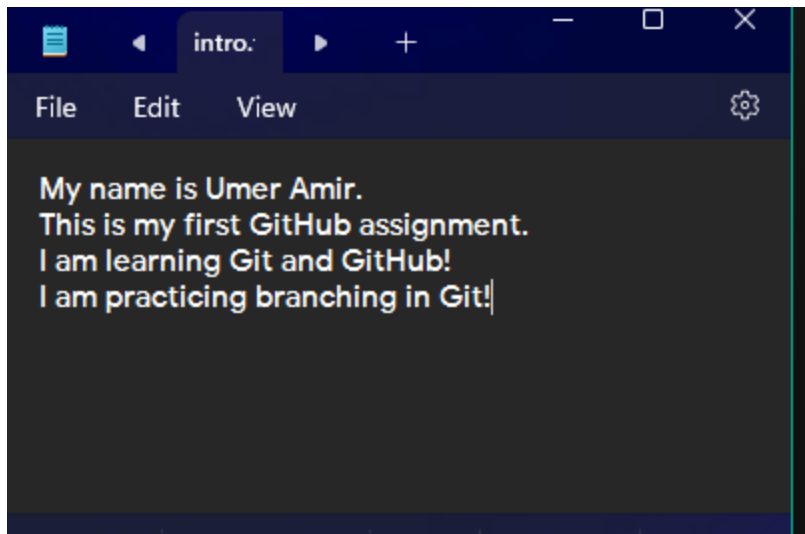
Step 8:

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ git checkout -b feature
Switched to a new branch 'feature'
(base)
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (feature)
$ git add intro.txt
warning: in the working copy of 'intro.txt', LF will be replaced by CRLF the next time Git to
uches it
(base)
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (feature)
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (feature)
$ git commit -m "Updated into.txt in feature branch"
[feature 2c4dc3a] Updated into.txt in feature branch
 1 file changed, 1 insertion(+)
(base)
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (feature)
$ git push origin feature
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 350 bytes | 350.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:      https://github.com/Umer-Amir/git-practice/pull/new/feature
remote:
To github.com:Umer-Amir/git-practice.git
 * [new branch]      feature -> feature
(base)
```

Step 9:

⑂ **feature** had recent pushes 4 minutes ago

Compare & pull request

Filters ▾   🔍 is:pr is:open

◌ Labels 0   ⬦ Milestones 0   New pull request

⑂

Welcome to pull requests!

Pull requests help you collaborate on code with other people. As pull requests are created, they ®
appear here in a searchable and filterable list. To get started, you should create a pull request.

Compare changes

Compare changes across branches, commits, tags, and more below. If you need to, you can also compare across forks.

⇄   base: main ▾   ⇄   compare: main ▾

Choose different branches or forks above to discuss and review changes. Learn about pull requests
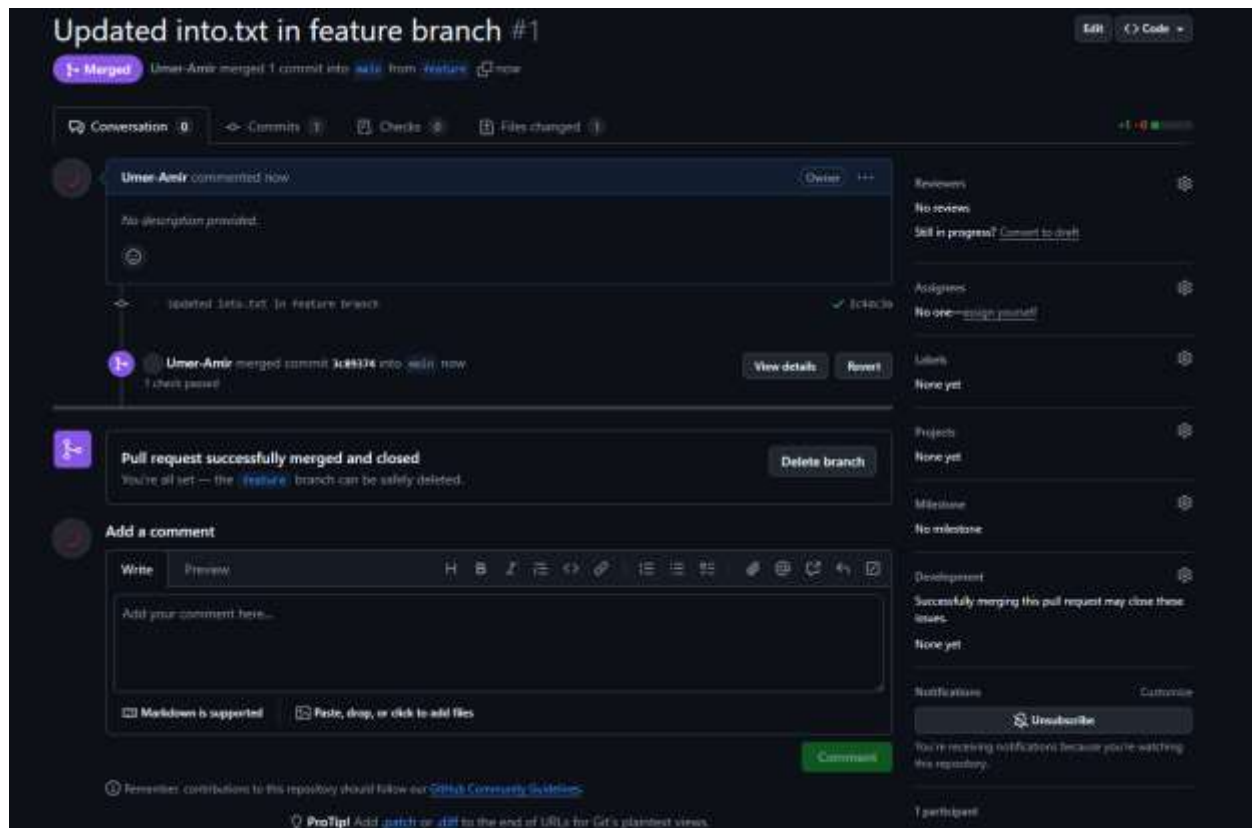
Create pull request

⟲

Compare and review just about anything

Branches, tags, commit ranges, and time ranges. In the same repository and across forks.

Example comparisons	
⑂ feature	4 minutes ago
⏱ main@{1day}...main	24 hours ago

Step 10:


```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (feature)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
(base)
```

```
umera@Umer MINGW64 ~/OneDrive/Desktop/Assigment/git-practice (main)
$ git pull origin main
From github.com:Umer-Amir/git-practice
 * branch              main          -> FETCH_HEAD
Already up to date.
(base)
```