

Git & GitHub

◆ 깃허브로 협업하기

정수아

Contents

01 원격 저장소 공유하기

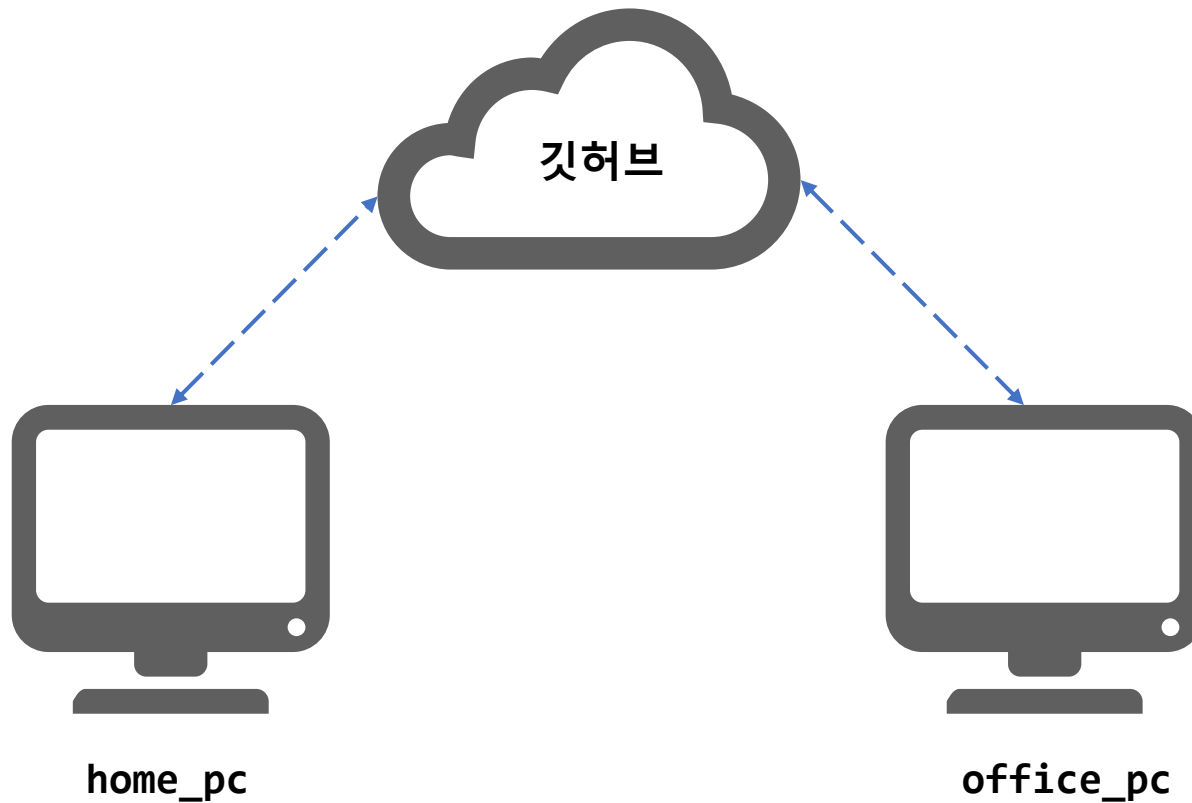


01

원격 저장소 공유하기

원격 저장소 공유하기

❖ 여러 대의 컴퓨터에서 하나의 깃허브 계정을 공유



원격 저장소 공유하기

❖ 원격 저장소 복제하기

```
$ git clone 원격_저장소_주소 복제할_경로
```

원격 저장소 공유하기

❖ home_pc 디렉터리에 원격 저장소 복제하기

```
$ git clone 원격_저장소_주소 home_pc
```

❖ office_pc 디렉터리에 원격 저장소 복제하기

```
$ git clone 원격_저장소_주소 office_pc
```

원격 저장소 공유하기

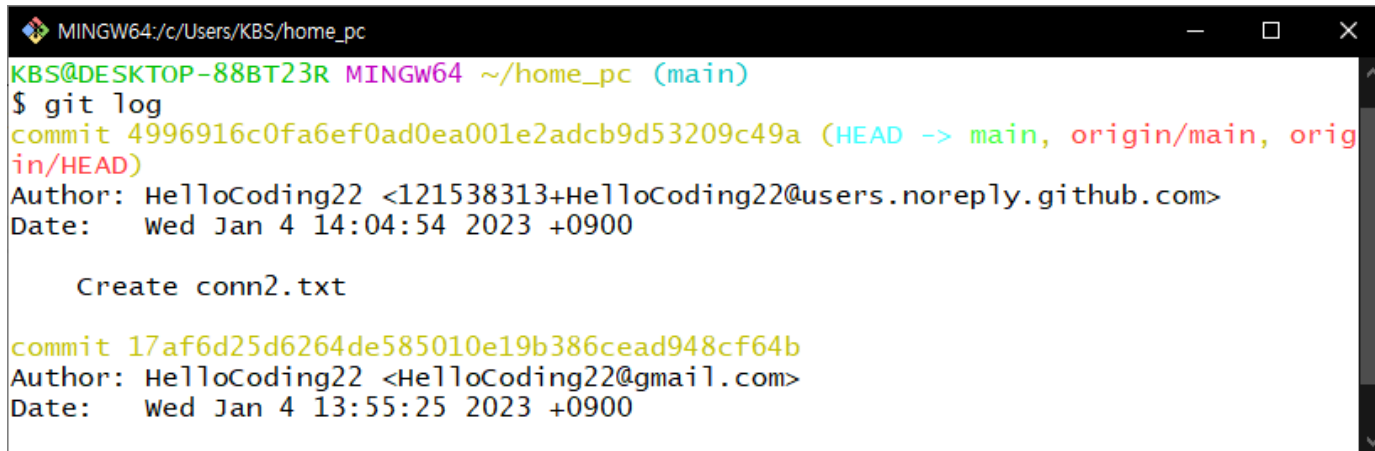
❖ 원격 저장소가 복제 되었는지 확인

- home_pc 디렉터리로 이동

```
$ cd home_pc
```

❖ 로그 확인하기

```
$ git log
```



```
MINGW64: c:/Users/KBS/home_pc
KBS@DESKTOP-88BT23R MINGW64 ~/home_pc (main)
$ git log
commit 4996916c0fa6ef0ad0ea001e2adcb9d53209c49a (HEAD -> main, origin/main, origin/HEAD)
Author: HelloCoding22 <121538313+HelloCoding22@users.noreply.github.com>
Date:   Wed Jan 4 14:04:54 2023 +0900

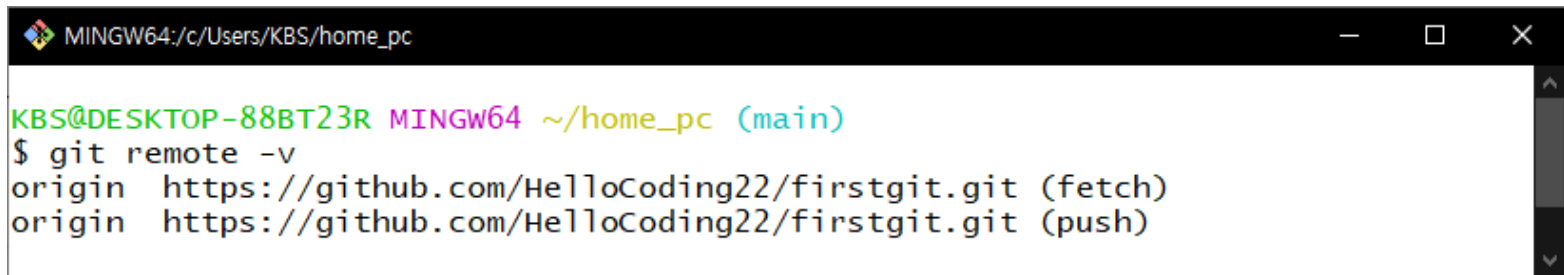
    Create conn2.txt

commit 17af6d25d6264de585010e19b386cead948cf64b
Author: HelloCoding22 <HelloCoding22@gmail.com>
Date:   Wed Jan 4 13:55:25 2023 +0900
```

원격 저장소 공유하기

❖ 지역 저장소가 원격 저장소와 연결되었는지 확인

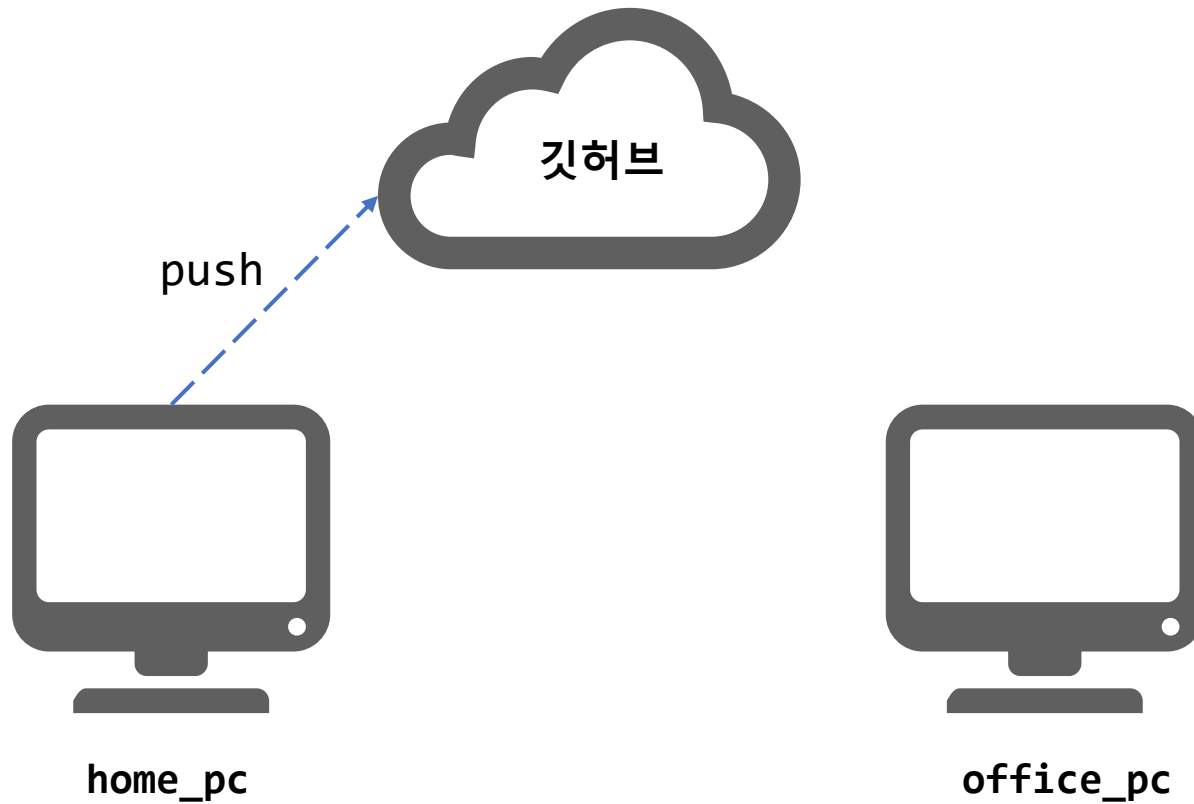
```
$ git remote -v
```

A screenshot of a Windows terminal window titled 'MINGW64: c:/Users/KBS/home_pc'. The prompt is 'KBS@DESKTOP-88BT23R MINGW64 ~/home_pc (main)'. The command '\$ git remote -v' has been executed, resulting in two lines of output: 'origin https://github.com/HelloCoding22/firstgit.git (fetch)' and 'origin https://github.com/HelloCoding22/firstgit.git (push)'. The terminal window has standard Windows window controls (minimize, maximize, close) in the top right corner.

```
MINGW64: c:/Users/KBS/home_pc
KBS@DESKTOP-88BT23R MINGW64 ~/home_pc (main)
$ git remote -v
origin https://github.com/HelloCoding22/firstgit.git (fetch)
origin https://github.com/HelloCoding22/firstgit.git (push)
```


원격 저장소 공유하기

❖ home_pc에서 작업하기

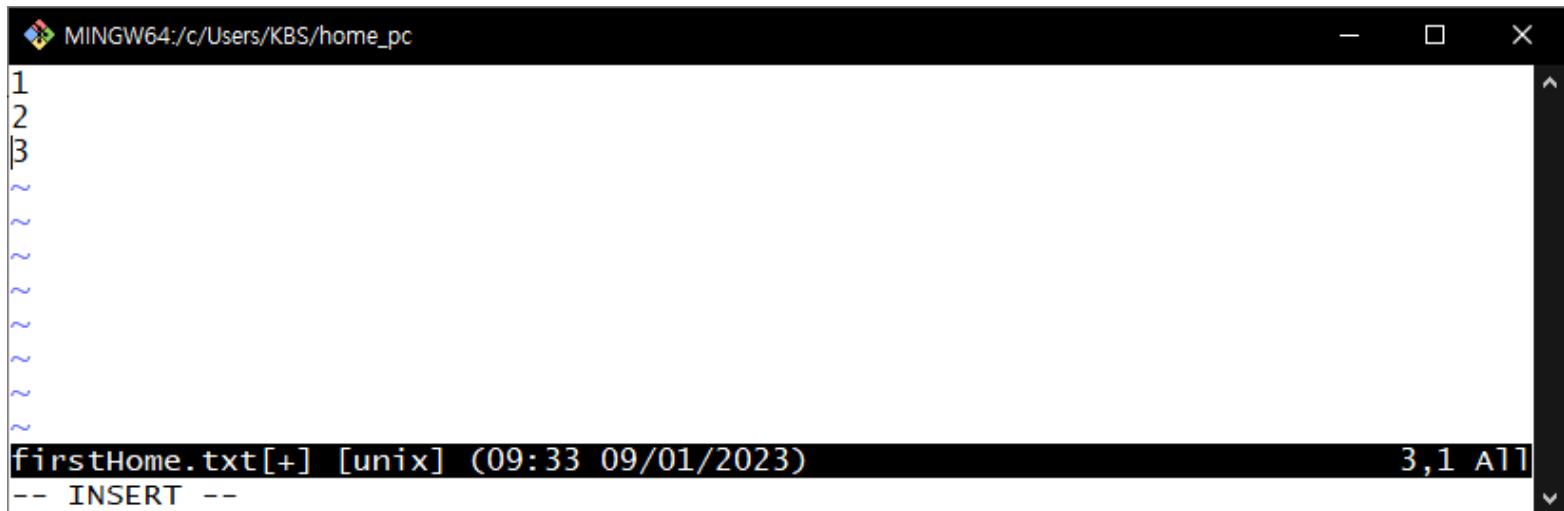


원격 저장소 공유하기

❖ home_pc에서 작업하기

- 새 파일 만들고, 내용 입력

```
$ vim firstHome.txt
```



The screenshot shows a terminal window titled "MINGW64:/c/Users/KBS/home_pc". Inside, the Vim editor is open, editing the file "firstHome.txt". The editor is in "INSERT" mode, as indicated by the "-- INSERT --" text at the bottom. The file content shows line numbers 1 through 10, with the third line containing the character "β". The status bar at the bottom right displays "3,1 A11", indicating the current cursor position is at line 3, column 1.

원격 저장소 공유하기

❖ home_pc에서 작업하기

- 스테이지에 올리기

```
$ git add firstHome.txt
```

- 커밋하기

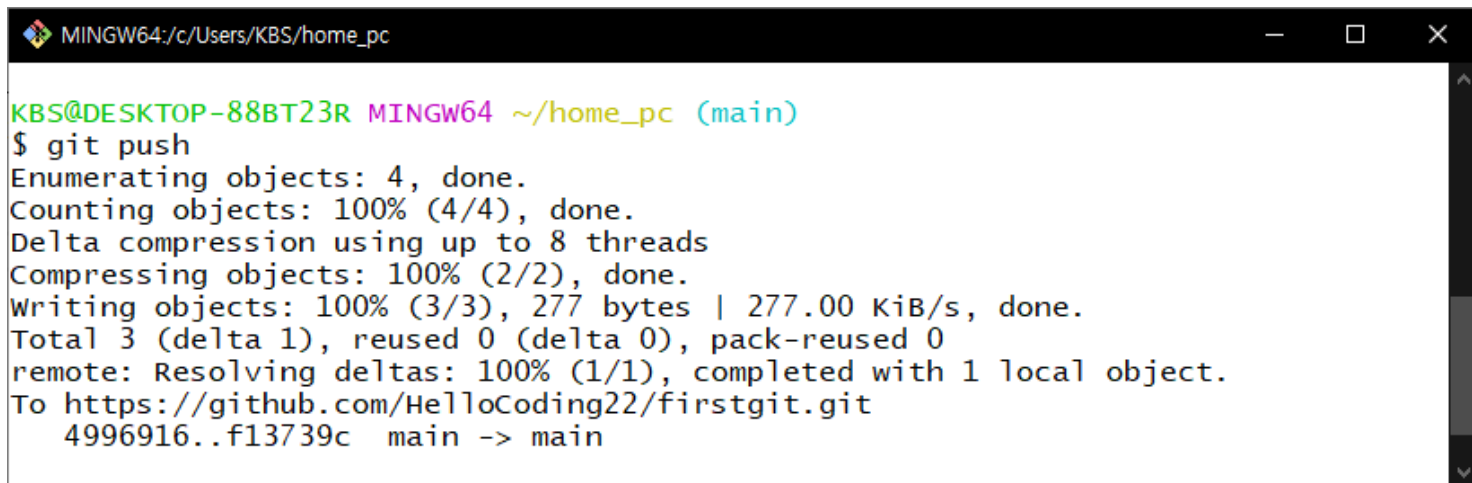
```
$ git commit -m "add firstHome"
```

원격 저장소 공유하기

❖ home_pc에서 작업하기

- 지역 저장소의 커밋을 원격 저장소에 올리기

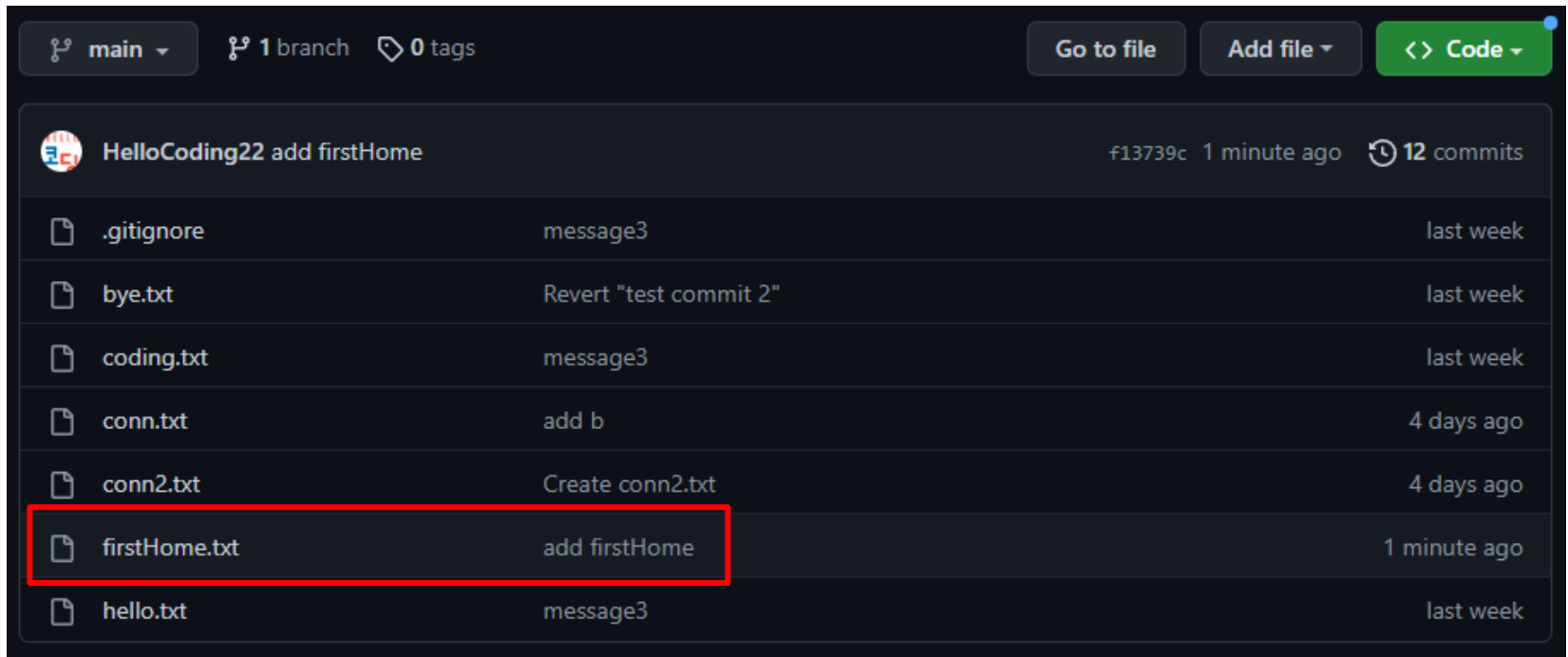
```
$ git push
```

A screenshot of a Windows terminal window titled 'MINGW64:/c/Users/KBS/home_pc'. The prompt is 'KBS@DESKTOP-88BT23R MINGW64 ~/home_pc (main)'. The user has entered '\$ git push'. The output shows the progress of pushing the commit to the remote repository: 'Enumerating objects: 4, done.', 'Counting objects: 100% (4/4), done.', 'Delta compression using up to 8 threads', 'Compressing objects: 100% (2/2), done.', 'Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/s, done.', 'Total 3 (delta 1), reused 0 (delta 0), pack-reused 0', 'remote: Resolving deltas: 100% (1/1), completed with 1 local object.', and 'To https://github.com/HelloCoding22/firstgit.git 4996916..f13739c main -> main'.

```
MINGW64:/c/Users/KBS/home_pc
KBS@DESKTOP-88BT23R MINGW64 ~/home_pc (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/HelloCoding22/firstgit.git
  4996916..f13739c  main -> main
```

원격 저장소 공유하기

❖ 깃허브에서 확인하기

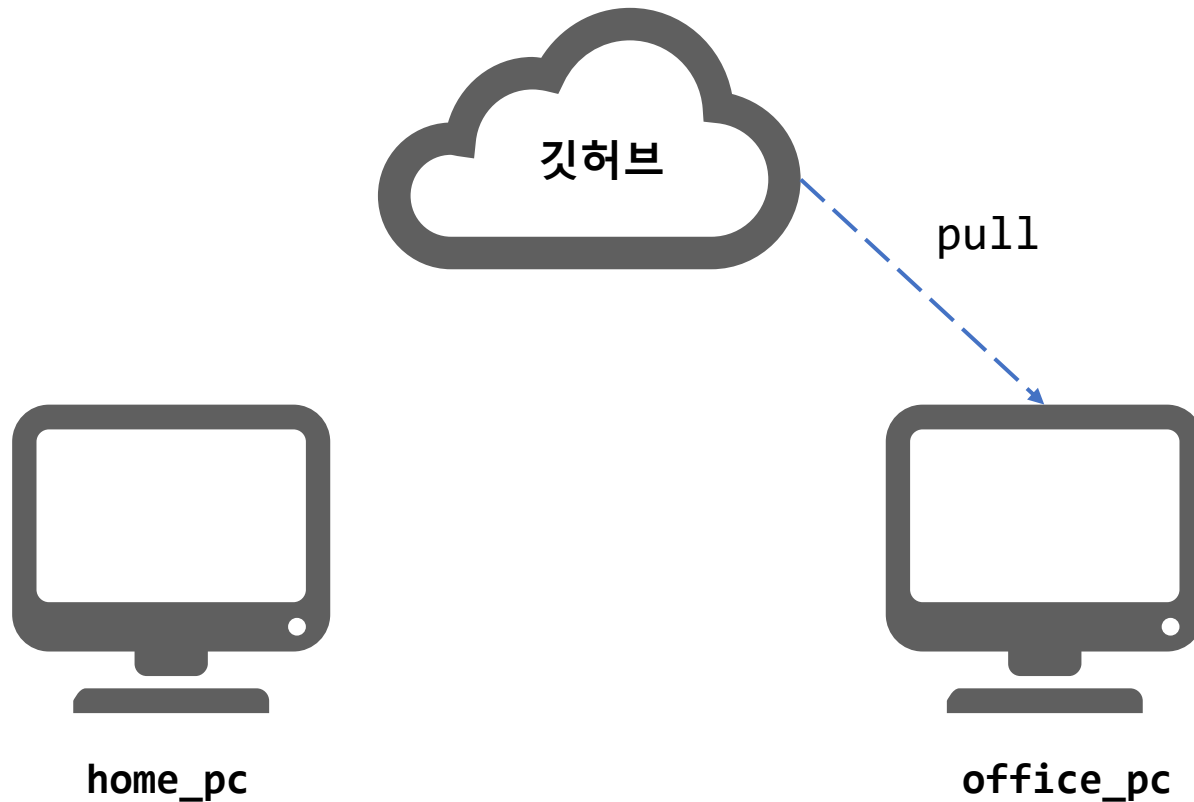


The screenshot shows a GitHub repository interface. At the top, there are buttons for 'main', '1 branch', and '0 tags'. On the right, there are buttons for 'Go to file', 'Add file', and 'Code'. Below this, the repository name 'HelloCoding22' is displayed along with the commit hash 'f13739c', the time '1 minute ago', and the number of commits '12 commits'. A list of files is shown below, with the file 'firstHome.txt' highlighted by a red rectangular box. The file list includes the filename, the commit message, and the time since the last commit.

File	Commit Message	Time
.gitignore	message3	last week
bye.txt	Revert "test commit 2"	last week
coding.txt	message3	last week
conn.txt	add b	4 days ago
conn2.txt	Create conn2.txt	4 days ago
firstHome.txt	add firstHome	1 minute ago
hello.txt	message3	last week

원격 저장소 공유하기

❖ office_pc에서 작업하기



원격 저장소 공유하기

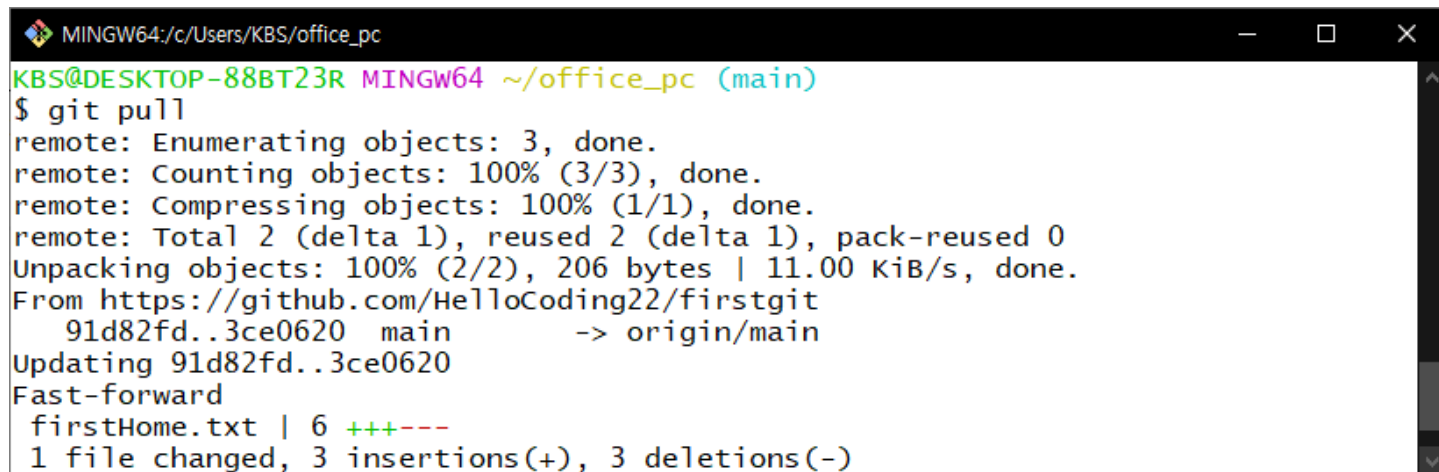
❖ office_pc에서 작업하기

- office_pc 디렉터리로 이동

```
$ cd office_pc
```

❖ 원격 저장소에서 파일 내려받기

```
$ git pull
```

A terminal window titled 'MINGW64:/c/Users/KBS/office_pc' showing the output of a 'git pull' command. The output indicates that 3 objects were enumerated, counted, and compressed from a remote repository. It shows a fast-forward merge from 'https://github.com/HelloCoding22/firstgit' to the local 'main' branch, updating the commit hash from '91d82fd..3ce0620'. The summary shows 1 file changed with 3 insertions and 3 deletions.

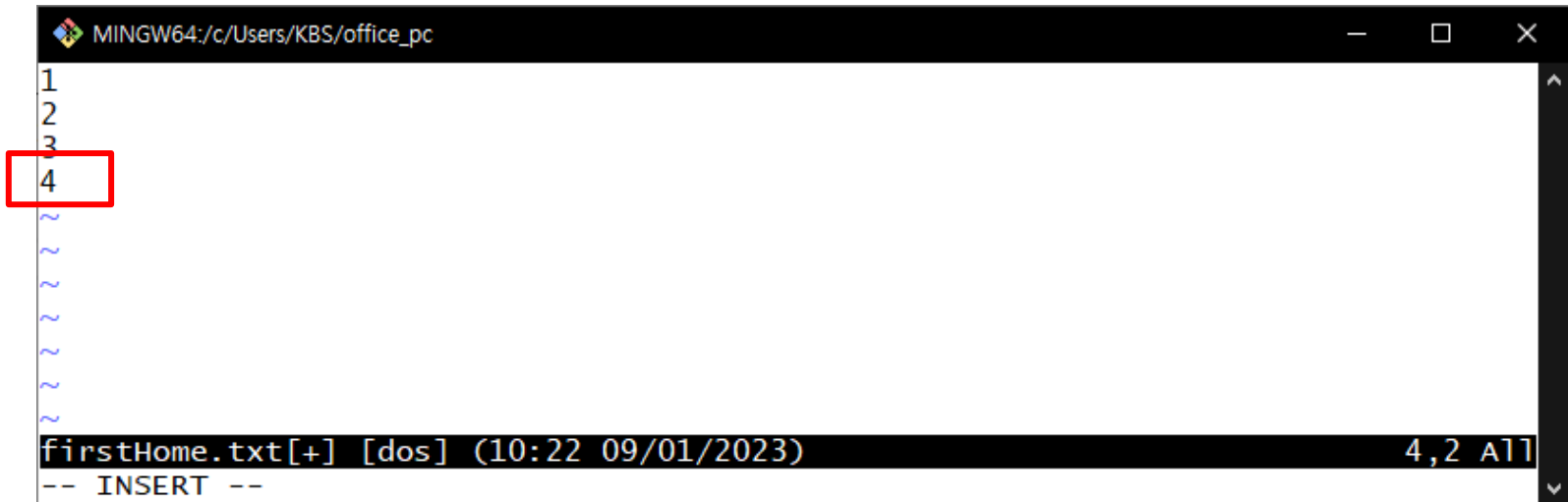
```
MINGW64:/c/Users/KBS/office_pc
KBS@DESKTOP-88BT23R MINGW64 ~/office_pc (main)
$ git pull
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 2 (delta 1), reused 2 (delta 1), pack-reused 0
Unpacking objects: 100% (2/2), 206 bytes | 11.00 KiB/s, done.
From https://github.com/HelloCoding22/firstgit
    91d82fd..3ce0620  main      -> origin/main
Updating 91d82fd..3ce0620
Fast-forward
 firstHome.txt | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)
```

원격 저장소 공유하기

❖ office_pc에서 작업하기

- firstHome.txt 파일 수정

```
$ vim firstHome.txt
```



The screenshot shows a terminal window titled "MINGW64:/c/Users/KBS/office_pc". Inside, the Vim editor is open, editing the file "firstHome.txt". The editor is in "INSERT" mode, as indicated by "-- INSERT --" at the bottom. The file content is displayed with line numbers on the left. Line 4 is highlighted with a red box. The status bar at the bottom shows "firstHome.txt[+] [dos] (10:22 09/01/2023) 4,2 A11".

```
1  
2  
3  
4  
~  
~  
~  
~  
~  
~  
~  
~  
firstHome.txt[+] [dos] (10:22 09/01/2023) 4,2 A11  
-- INSERT --
```


원격 저장소 공유하기

❖ office_pc에서 작업하기

- 스테이지에 올리기

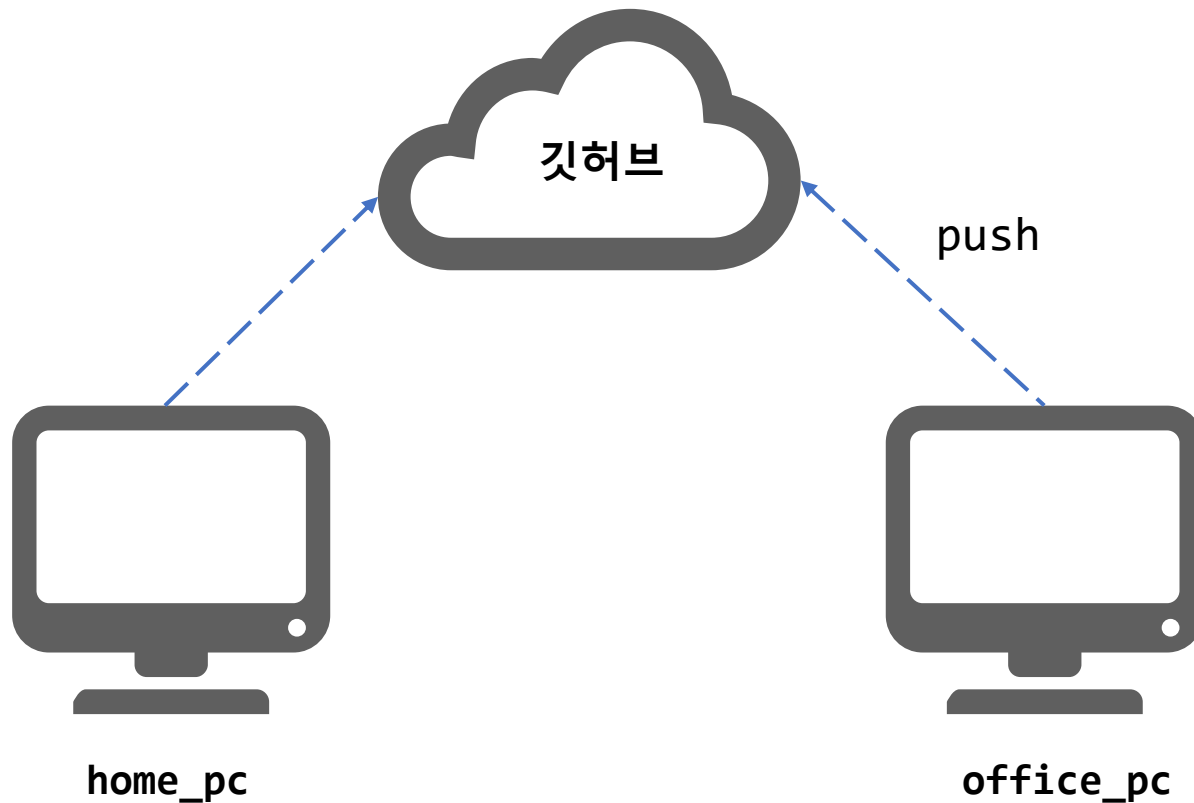
```
$ git add firstHome.txt
```

- 커밋하기

```
$ git commit -m "add 4"
```

원격 저장소 공유하기

❖ office_pc에서 작업하기

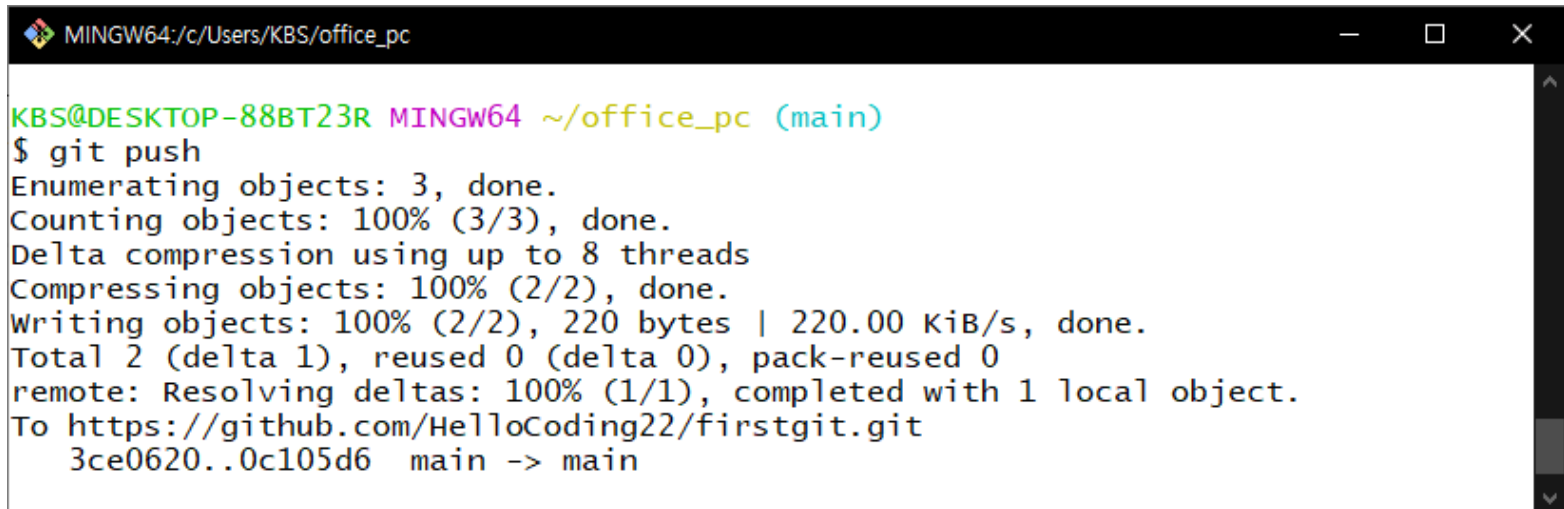


원격 저장소 공유하기

❖ office_pc에서 작업하기

- 지역 저장소의 커밋을 원격 저장소에 올리기

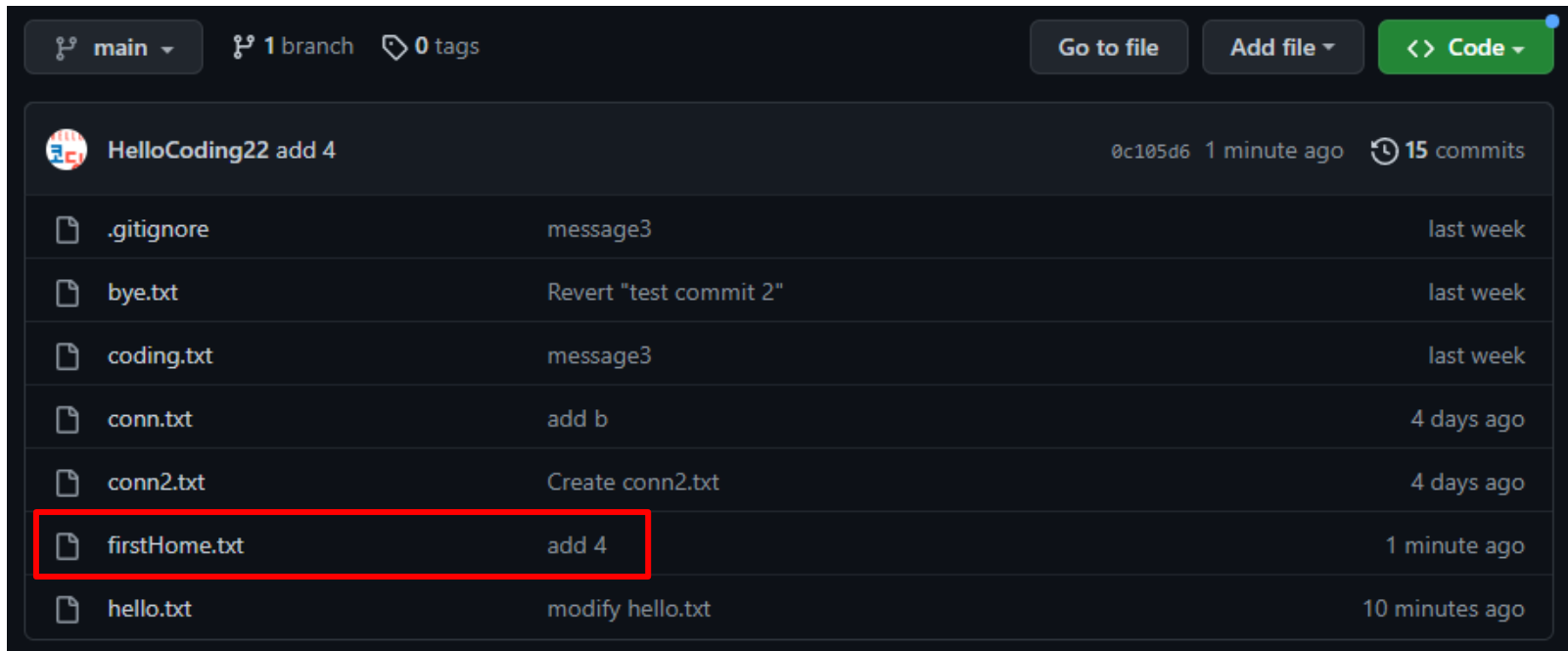
```
$ git push
```

A screenshot of a Windows terminal window titled 'MINGW64: c:/Users/KBS/office_pc'. The prompt is 'KBS@DESKTOP-88BT23R MINGW64 ~/office_pc (main)'. The user has entered '\$ git push'. The output shows the progress of pushing the commit: 'Enumerating objects: 3, done.', 'Counting objects: 100% (3/3), done.', 'Delta compression using up to 8 threads', 'Compressing objects: 100% (2/2), done.', 'Writing objects: 100% (2/2), 220 bytes | 220.00 KiB/s, done.', 'Total 2 (delta 1), reused 0 (delta 0), pack-reused 0', 'remote: Resolving deltas: 100% (1/1), completed with 1 local object.', and 'To https://github.com/HelloCoding22/firstgit.git 3ce0620..0c105d6 main -> main'.

```
MINGW64: c:/Users/KBS/office_pc
KBS@DESKTOP-88BT23R MINGW64 ~/office_pc (main)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 220 bytes | 220.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/HelloCoding22/firstgit.git
 3ce0620..0c105d6  main -> main
```

원격 저장소 공유하기

❖ 깃허브에서 확인하기



The screenshot shows the GitHub interface for a repository named 'HelloCoding22'. At the top, it indicates the 'main' branch with 1 branch and 0 tags. There are buttons for 'Go to file', 'Add file', and 'Code'. Below this, the repository name 'HelloCoding22' is followed by 'add 4' and a commit hash '0c105d6' from '1 minute ago' with '15 commits'. A table lists the files in the repository:

File	Commit Message	Time
.gitignore	message3	last week
bye.txt	Revert "test commit 2"	last week
coding.txt	message3	last week
conn.txt	add b	4 days ago
conn2.txt	Create conn2.txt	4 days ago
firstHome.txt	add 4	1 minute ago
hello.txt	modify hello.txt	10 minutes ago

THANK 😊 YOU