

# Git & GitHub

◆ 오픈소스 저장소 사용하기 - Python

정수아

# Contents

**01** 오픈소스 저장소 복제하기

**02** 오픈소스 저장소에 합치기 요청

**03** 오픈소스 저장소에 합치기 수락



01

## 오픈소스 저장소 복제

# 오픈소스 저장소 복제

## ❖ 오픈소스 저장소로 이동

`https://github.com/HelloCoding22/Python-Game.git`

클릭

The screenshot shows the GitHub interface for the repository 'HelloCoding22 / Python-Game'. The repository is public and has 1 watch, 0 forks, and 0 stars. The 'Forks' button is highlighted with a red box and labeled '클릭'. The repository has 1 branch (main) and 0 tags. The commit history shows a recent commit 'HelloCoding22 Create game.py' with 3 commits. The file list includes 'README.md' and 'game.py'. The README content is visible, showing the title '오픈소스 저장소 클론 수업-Python 버전'.

HelloCoding22 / Python-Game Public

Watch 1 Forks 0 Stars 0

Code Issues Pull requests Actions Projects Security Insights

main 1 branch 0 tags Go to file Add file <> Code

HelloCoding22 Create game.py 4722890 3 days ago 3 commits

README.md Update README.md 3 days ago

game.py Create game.py 3 days ago

README.md

오픈소스 저장소 클론 수업-Python 버전

About

오픈소스 저장소 클론 수업-Python 버전

Readme

0 stars

1 watching

0 forks

Releases

No releases published

# 오픈소스 저장소 복제

## ❖ 본인 계정에 Python-Game 저장소 복제


### Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.

---

Owner \*

Repository name \*

 Sophia-Jung ▾

 / 

Python-Game ✓

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)


오픈소스 저장소 클론 수업-Python 버전

---

☒ Copy the `main` branch only

Contribute back to HelloCoding22/Python-Game by adding your own branch. [Learn more.](#)

---

 You are creating a fork in your personal account.

---

Create fork

# 오픈소스 저장소 복제

## ❖ 본인 계정에 Python-Game 저장소 복제

The screenshot shows a GitHub repository page for 'Sophia-Jung / Python-Game'. The repository is public and was forked from 'HelloCoding22/Python-Game'. The page includes a navigation bar with links to Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, there are buttons for 'main' branch, '1 branch', and '0 tags'. A 'Go to file' button and an 'Add file' button are also present. A green 'Code' button is visible. The repository description is '오픈소스 저장소 클론 수업-Python 버전'. The repository has 0 stars, 0 watching, and 1 fork. The repository contains two files: 'README.md' and 'game.py'. The 'README.md' file is highlighted, showing its content: '오픈소스 저장소 클론 수업-Python 버전'.

Sophia-Jung / Python-Game Public

forked from HelloCoding22/Python-Game

<> Code Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file <> Code

This branch is up to date with HelloCoding22/Python-Game:main. Contribute Sync fork

HelloCoding22 Create game.py 4722890 3 days ago 3 commits

File	Commit Message	Time
README.md	Update README.md	3 days ago
game.py	Create game.py	3 days ago

README.md

오픈소스 저장소 클론 수업-Python 버전

About

오픈소스 저장소 클론 수업-Python 버전

Readme

0 stars

0 watching

1 fork

Releases

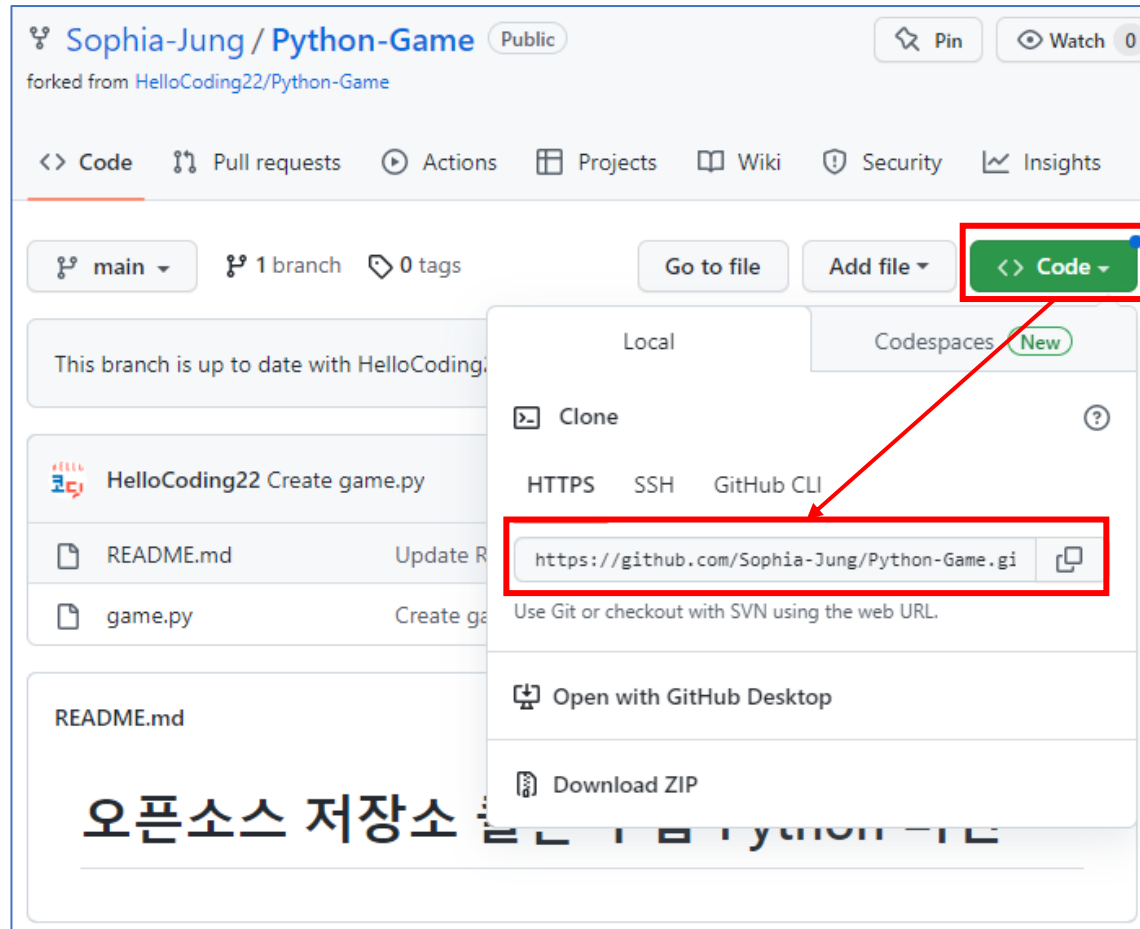
No releases published  
[Create a new release](#)

Packages

No packages published

# 오픈소스 저장소 복제

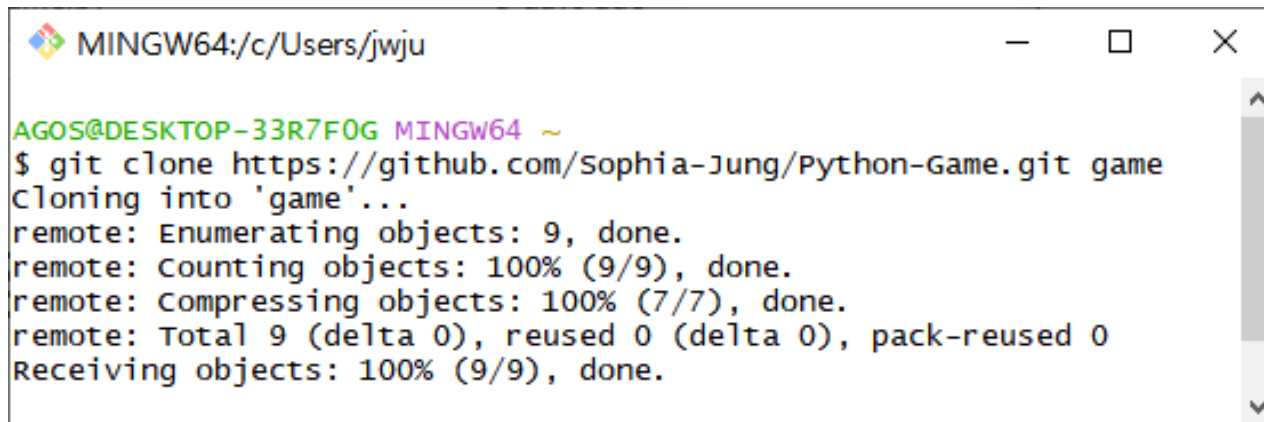
## ❖ 복제한 저장소 주소 복사



# 오픈소스 저장소 복제

## ❖ 복제된 저장소를 지역 저장소로 클론하기

```
$ git clone 복사한_저장소_주소 game
```



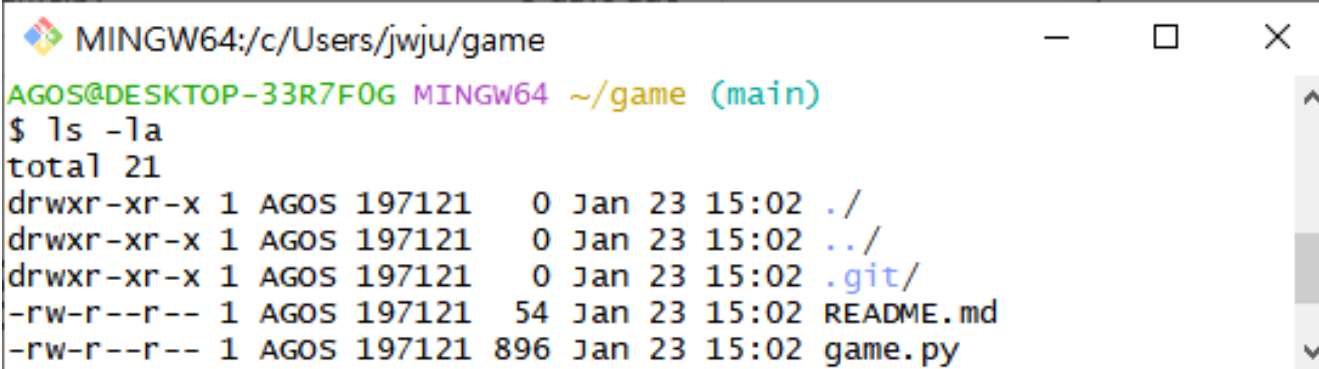
```
MINGW64:/c/Users/jwju
AGOS@DESKTOP-33R7F0G MINGW64 ~
$ git clone https://github.com/Sophia-Jung/Python-Game.git game
Cloning into 'game'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (9/9), done.
```



# 오픈소스 저장소 복제

## ❖ 지역 저장소로 복사되었는지 확인

```
$ cd game  
$ ls -la
```



The screenshot shows a terminal window titled 'MINGW64:/c/Users/jwju/game'. The prompt is 'AGOS@DESKTOP-33R7F0G MINGW64 ~/game (main)'. The command '\$ ls -la' has been executed, resulting in the following output:

```
total 21  
drwxr-xr-x 1 AGOS 197121  0 Jan 23 15:02 ./  
drwxr-xr-x 1 AGOS 197121  0 Jan 23 15:02 ../  
drwxr-xr-x 1 AGOS 197121  0 Jan 23 15:02 .git/  
-rw-r--r-- 1 AGOS 197121  54 Jan 23 15:02 README.md  
-rw-r--r-- 1 AGOS 197121 896 Jan 23 15:02 game.py
```

# 오픈소스 저장소 복제

## ❖ game.py 소스 코드 수정하기



```
MINGW64: /c/Users/KBS/oame
# 소스 코드 수정 중

import random
num1 = int(input("하 나 를 선택 하 세 요 : 가 위 (0), 바 위 (1), 보 (2) :"))
num2 = random.randrange(0, 3)

if num2 == 0:
    print("컴 퓨 터 는 가 위 를 냈 습 니 다 .")
elif num2 == 1:
    print("컴 퓨 터 는 바 위 를 냈 습 니 다 .")
else:
    print("컴 퓨 터 는 보 를 냈 습 니 다 .")

if num1 == 0:
    if num2 == 1:
        print("컴 퓨 터 가 이 졌 습 니 다 ")
    elif num2 == 2:
        print("당 신 이 이 졌 습 니 다 .")
    else:
        print("비 졌 습 니 다 .")
elif num1 == 1:
    if num2 == 0:
        print("당 신 이 이 졌 습 니 다 .")
    elif num2 == 2:
        print("컴 퓨 터 가 이 졌 습 니 다 .")
    else:
        print("비 졌 습 니 다 .")
else:
    print("비 졌 습 니 다 .")
game.py[+] [dos] (11:11 10/01/2023) 5,1 Top
-- INSERT --
```

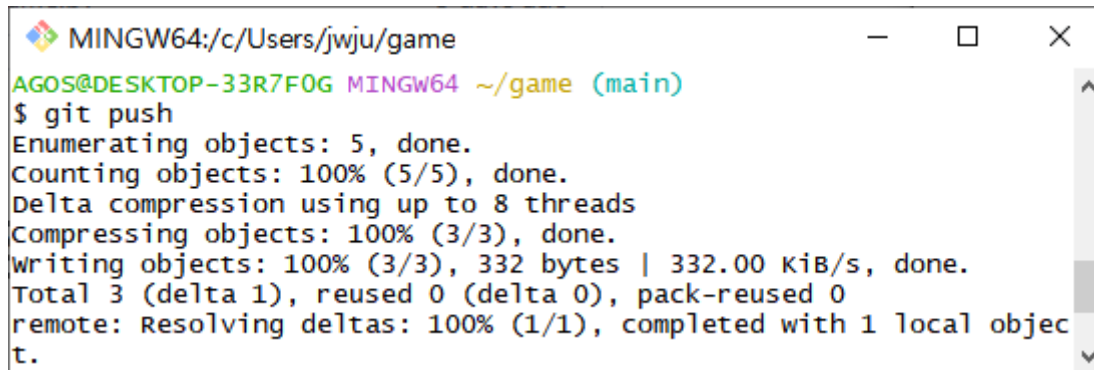
# 오픈소스 저장소 복제

## ❖ 커밋하기

```
$ git commit -am "add my text"
```

## ❖ 원격 저장소에 올리기

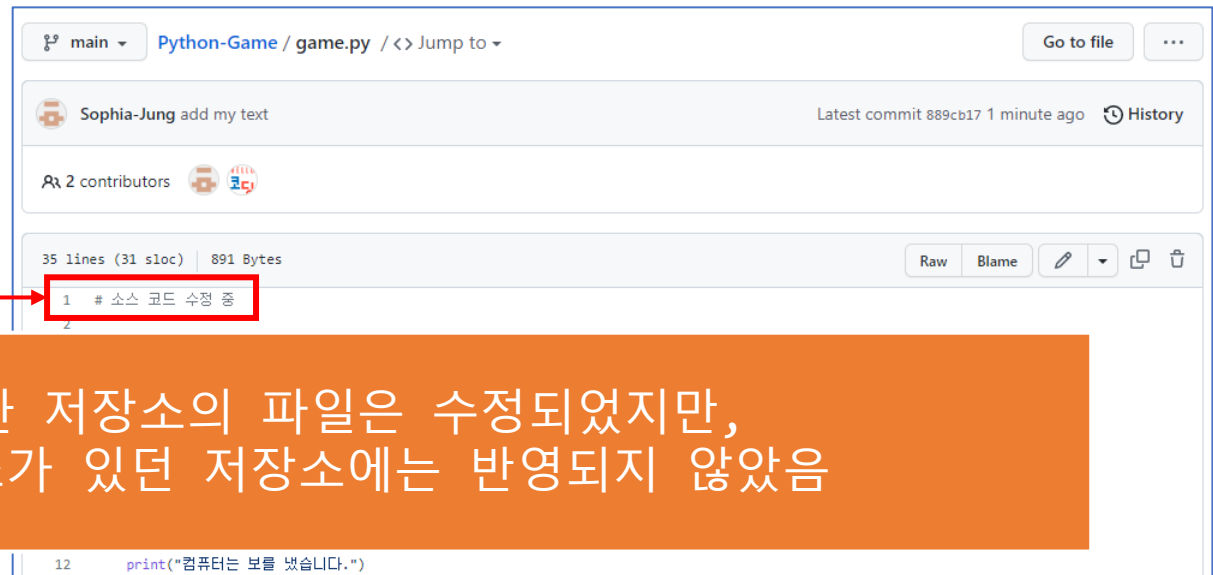
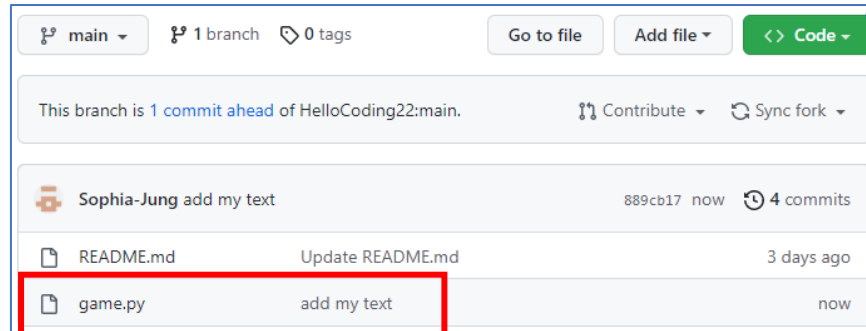
```
$ git push
```



```
MINGW64:/c/Users/jwju/game
AGOS@DESKTOP-33R7F0G MINGW64 ~/game (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 332 bytes | 332.00 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.
t.
```

# 오픈소스 저장소 복제

## ❖ game.py 커밋 완료



복제한 저장소의 파일은 수정되었지만,  
원본 소스가 있던 저장소에는 반영되지 않았음

12 print("컴퓨터는 보를 냅니다.")



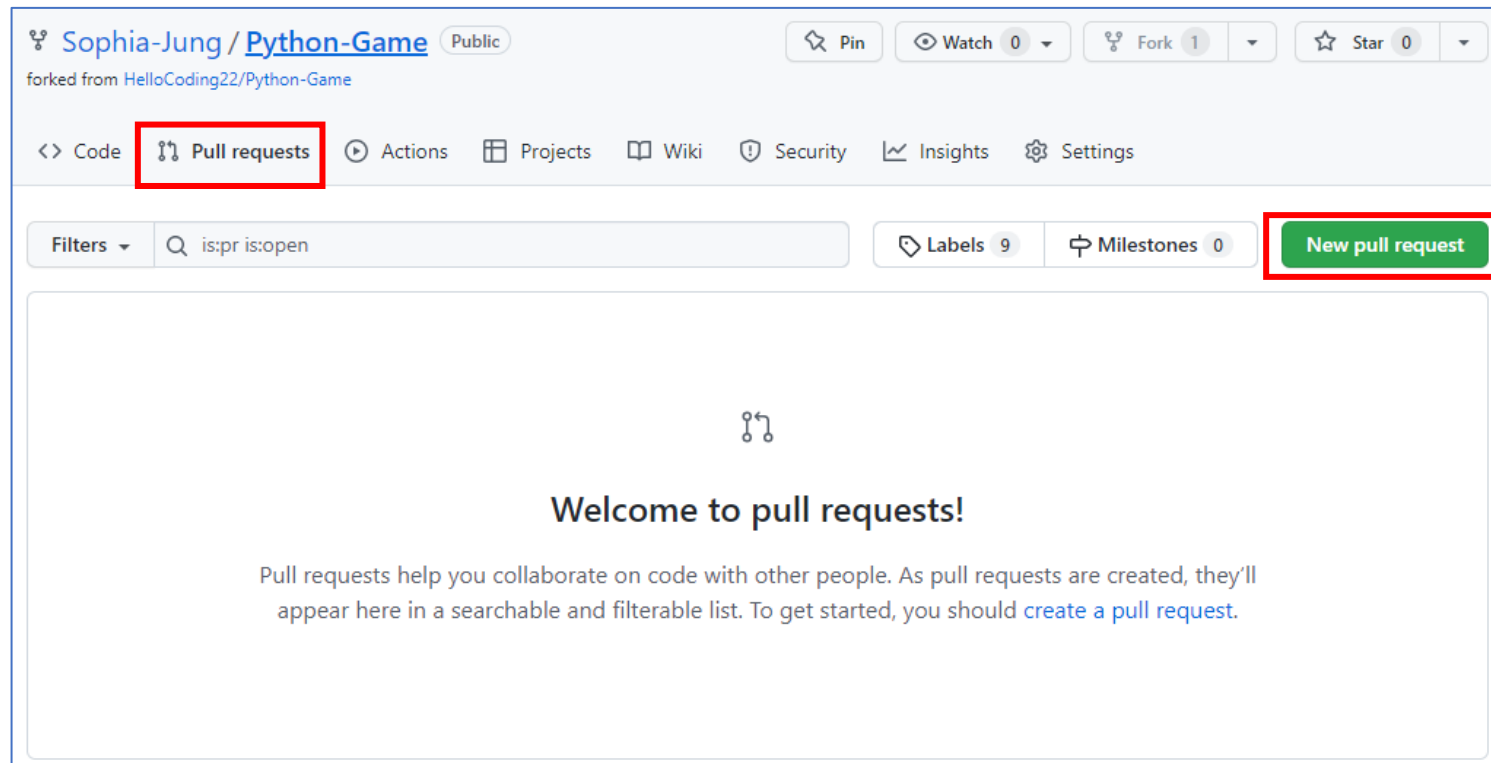
02

## 오픈소스 저장소에 합치기 요청

# 오픈소스 저장소에 합치기 - 요청

## ❖ 풀 리퀘스트(pull request)

- 원본 저장소의 개발자에게 수정한 내용을 반영해 달라는 요청



# 오픈소스 저장소에 합치기 - 요청

- ❖ 원본 저장소의 파일 vs 복제된 저장소의 파일
  - 변경 사항을 보여줌

The screenshot shows the GitHub 'Comparing changes' interface for a pull request. At the top, it says 'Comparing changes' and provides instructions: 'Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).' Below this, there are dropdown menus for 'base repository: HelloCoding22/Python-Game', 'base: main', 'head repository: Sophia-Jung/Python-Game', and 'compare: main'. A green checkmark indicates 'Able to merge. These branches can be automatically merged.' A blue bar contains the text 'Discuss and review the changes in this comparison with others. [Learn about pull requests](#)' and a green 'Create pull request' button. Below this, a summary bar shows '1 commit', '1 file changed', and '1 contributor'. The 'Commits on Jan 23, 2023' section shows a commit titled 'add my text' by Sophia-Jung, committed 2 minutes ago, with commit hash 889cb17. Below the commit, it says 'Showing 1 changed file with 2 additions and 0 deletions.' and has 'Split' and 'Unified' tabs. The file 'game.py' is shown with a diff view. The diff shows two additions (lines 1 and 2) and two deletions (lines 3 and 4). The additions are: '1 + # 소스 코드 수정 중' and '2 +'. The deletions are: '3 import random' and '4 num1 = int(input("하나를 선택하세요 : 가위(0), 바위(1), 보(2) :"))'. The file content is shown in a light blue box with a scrollbar on the right.

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: HelloCoding22/Python-Game base: main head repository: Sophia-Jung/Python-Game compare: main

✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#) [Create pull request](#)

1 commit 1 file changed 1 contributor

Commits on Jan 23, 2023

add my text  
Sophia-Jung committed 2 minutes ago 889cb17

Showing 1 changed file with 2 additions and 0 deletions. Split Unified

game.py

```
... @@ -1,3 +1,5 @@  
1 + # 소스 코드 수정 중  
2 +  
1 3 import random  
2 4 num1 = int(input("하나를 선택하세요 : 가위(0), 바위(1), 보(2) :"))  
3 5 num2 = random.randrange(0, 3)
```

# 오픈소스 저장소에 합치기 - 요청

## ❖ 상단 “Create pull request” 버튼 클릭

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: HelloCoding22/Python-Game base: main head repository: Sophia-Jung/Python-Game compare: main

✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

1 commit 1 file changed 1 contributor

Commits on Jan 23, 2023

add my text  
Sophia-Jung committed 2 minutes ago

Showing 1 changed file with 2 additions and 0 deletions.

Split Unified

```
game.py
@@ -1,3 +1,5 @@
1 + # 소스 코드 수정 중
2 +
1 3 import random
2 4 num1 = int(input("하나를 선택하세요 : 가위(0), 바위(1), 보(2) :"))
3 5 num2 = random.randrange(0, 3)
```



# 오픈소스 저장소에 합치기 - 요청


## ❖ 커밋에 대한 설명 추가








Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare](#)

base repository: HelloCoding22/Python-Game base: main head repository: Sophia-Jung/Python-Game


✓ Able to merge. These branches can be automatically merged.

 add my text

Write Preview H B I  <>     @  

개발자님,  
주석을 추가했습니다.  
커밋을 허락해주세요.

Attach files by dragging & dropping, selecting or pasting them.

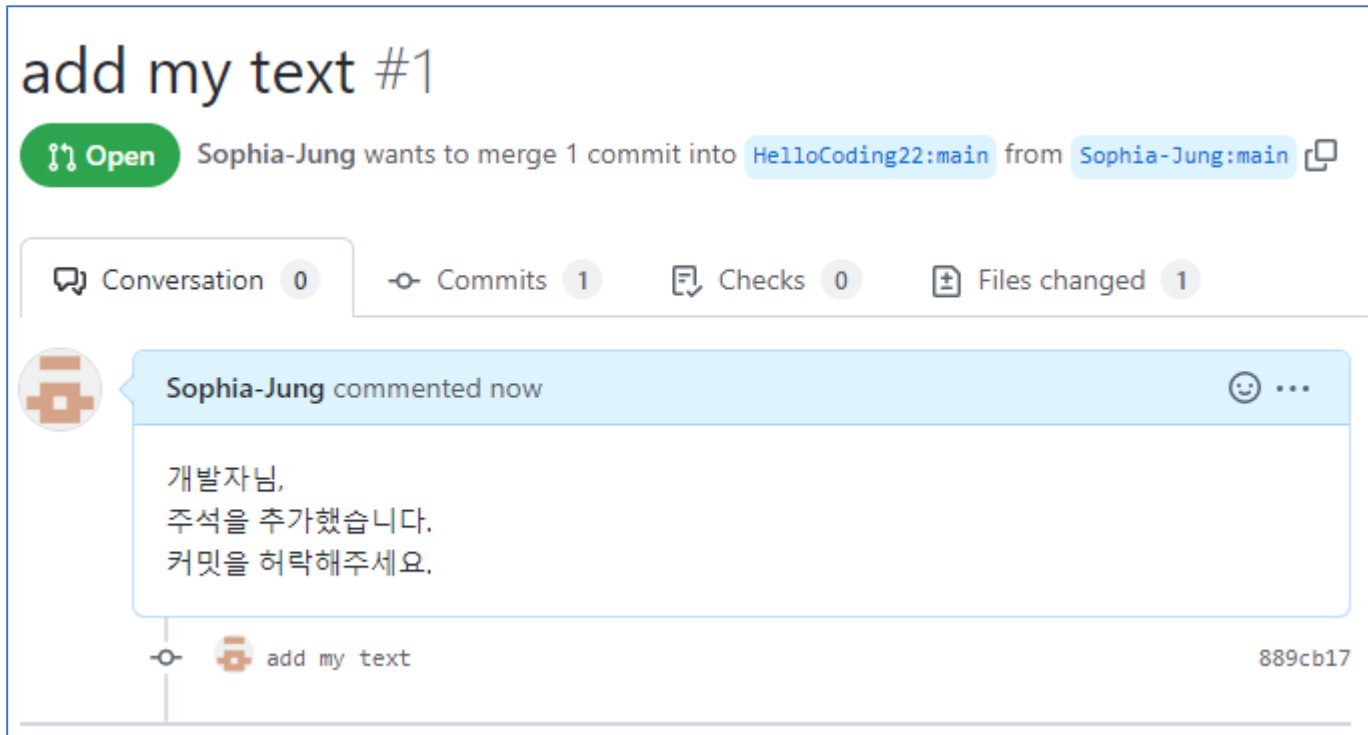
☒ Allow edits by maintainers 

Create pull request

# 오픈소스 저장소에 합치기 - 요청

## ❖ 개발자와 소통하는 공간

- 개발자와 질문과 답변을 주고 받으면서 수정한 내용을 원본 소스에 반영할지 여부를 결정





03

## 오픈소스 저장소에 합치기 수락

# 오픈소스 저장소에 합치기 - 수락

## ❖ 원본 저장소

The screenshot shows the GitHub interface for the repository 'HelloCoding22 / Python-Game'. The 'Pull requests' tab is highlighted with a red box. Below the repository header, there's a notification banner about labeling issues for new contributors. The 'Pull requests' section shows 1 open pull request, 'add my text', which was opened by Sophia-Jung. The pull request title and its details are also highlighted with a red box.

Repository: HelloCoding22 / Python-Game (Public)

Actions: Pin, Unwatch (1), Fork (0), Star (0)

Navigation: Code, Issues, **Pull requests (1)**, Actions, Projects, Wiki, Security

Notification: Label issues and pull requests for new contributors. Now, GitHub will help potential first-time contributors discover issues labeled with **good first issue**.

Filters: is:pr is:open | Labels (9) | Milestones (0) | **New pull request**

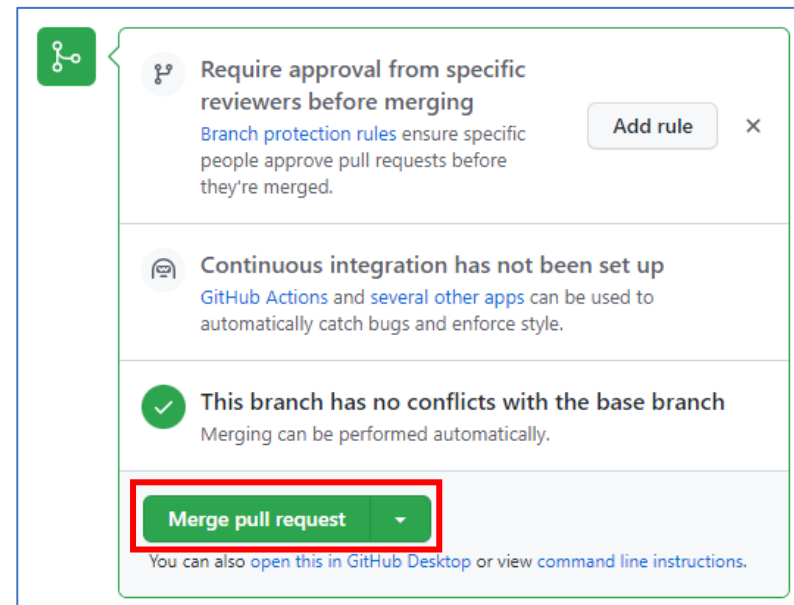
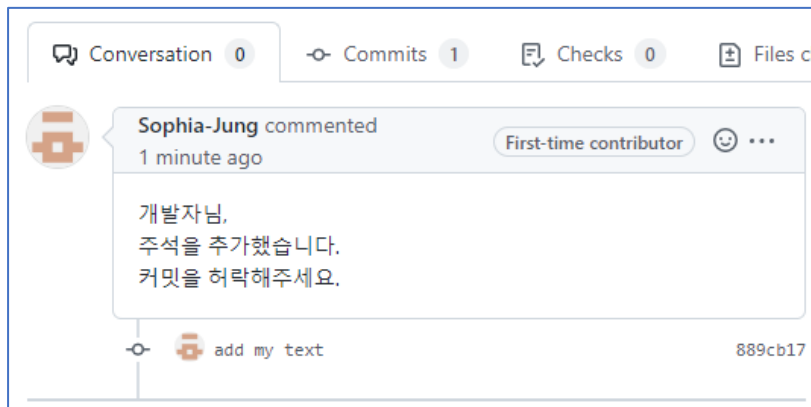
1 Open | 0 Closed

<input type="checkbox"/>	Author	Label	Projects	Milestones	Reviews	Assignee	Sort
<input type="checkbox"/>	add my text						
	#1 opened now by Sophia-Jung						

# 오픈소스 저장소에 합치기 - 수락

## ❖ 다른 사용자가 보낸 수정 내용 검토 후, 수락 여부 결정

- 수정을 허락하려면 Merge pull request 버튼 클릭



# 오픈소스 저장소에 합치기 - 수락

## ❖ 원본 저장소의 소스 코드에 수정사항 반영



**THANK 😊 YOU**