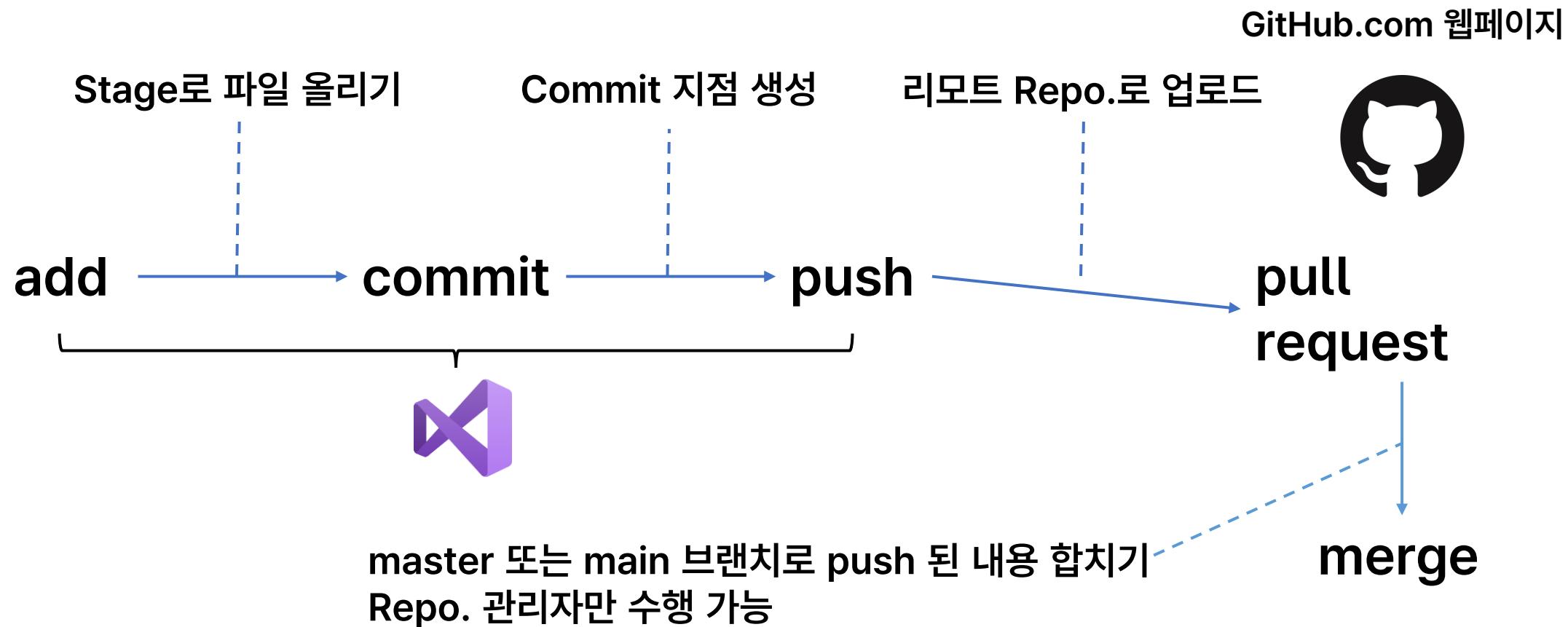
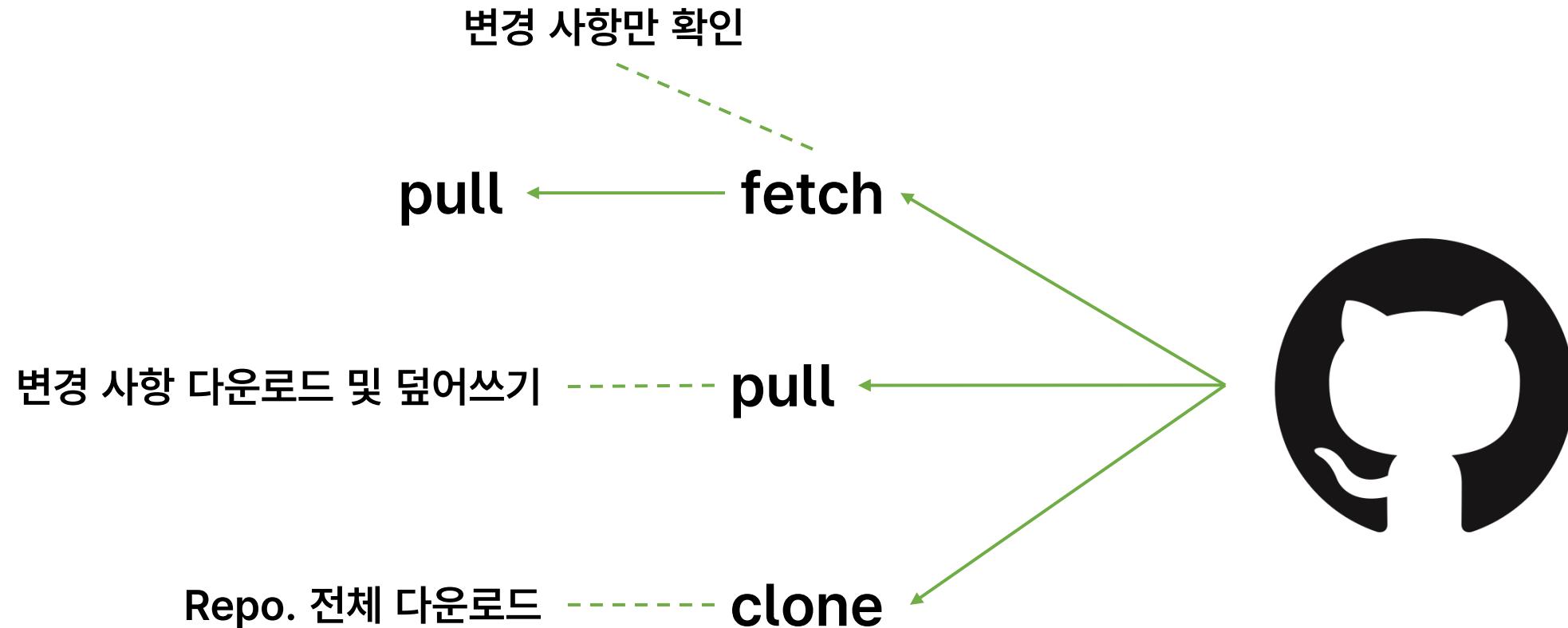


# Visual Studio & Git

# Git & GitHub



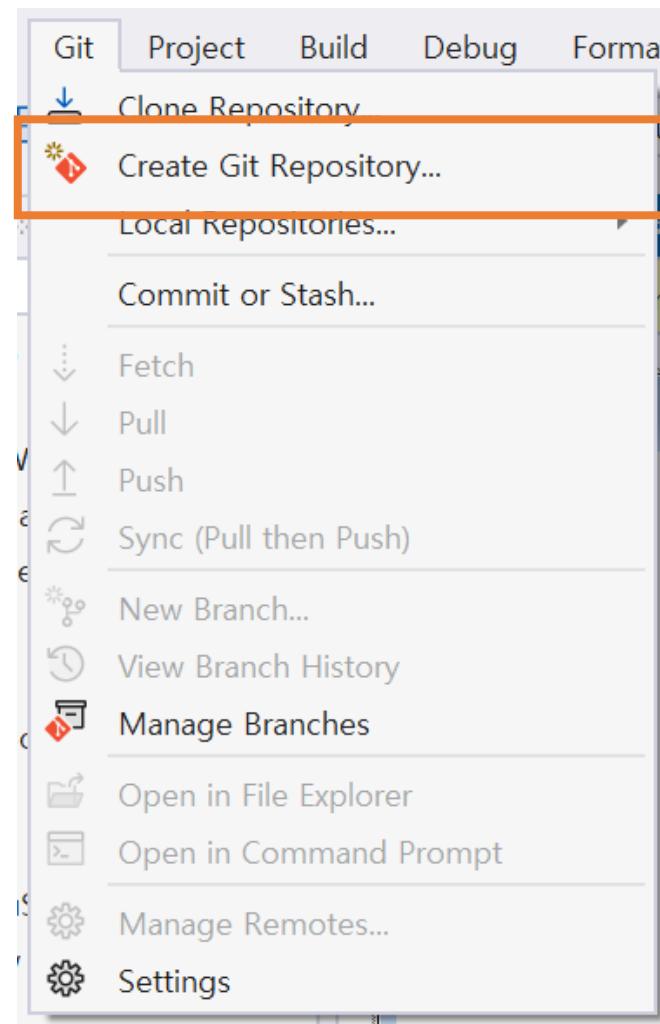
# Git & GitHub



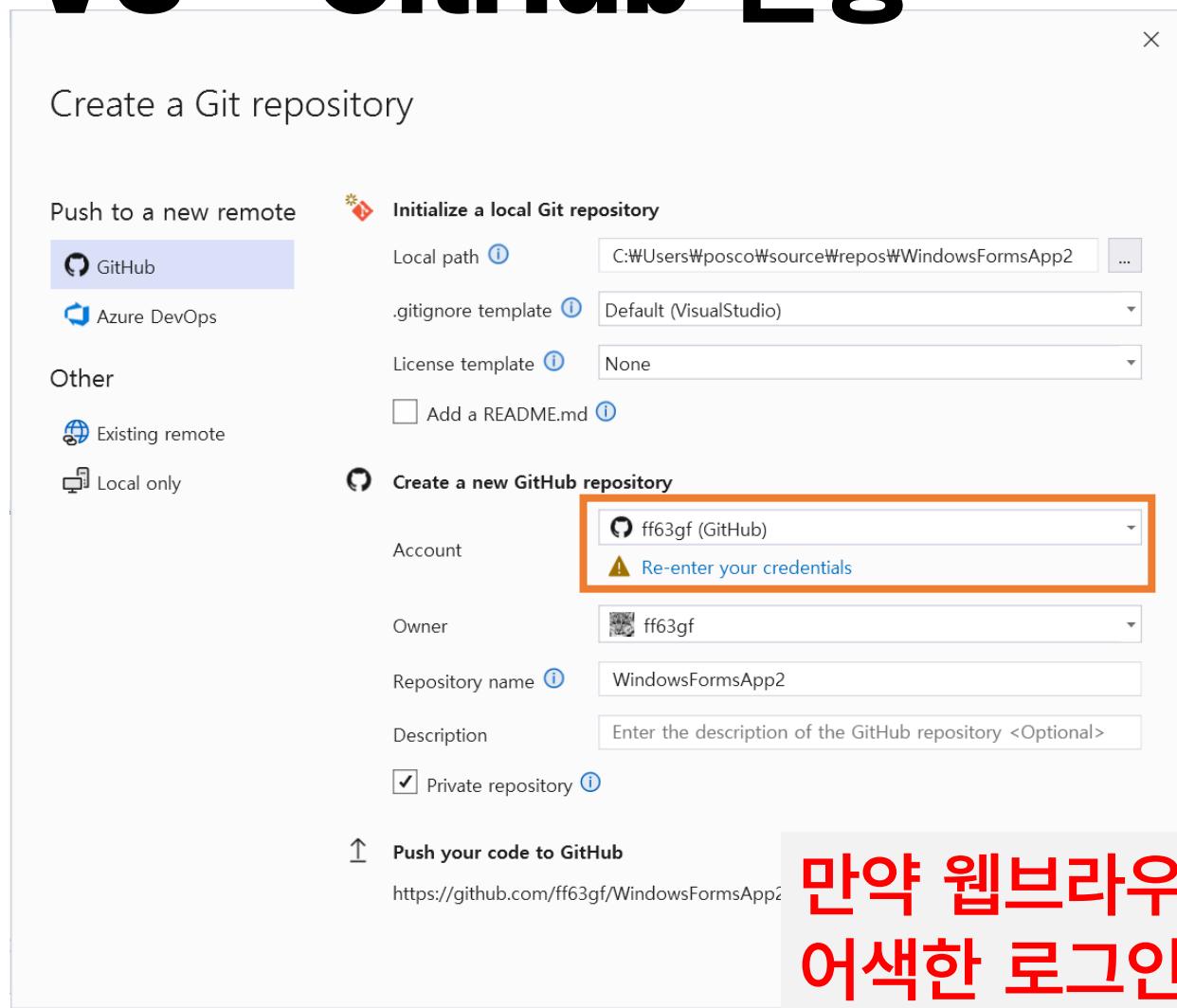
# VS - GitHub 연동 절차

1. 솔루션을 생성
  2. 솔루션 폴더를 Repo.로 만들기
  3. GitHub에 로그인, 솔루션 이름으로 Remote Repo. 생성
- 위 모든 과정이 Visual Studio 안에서 실행

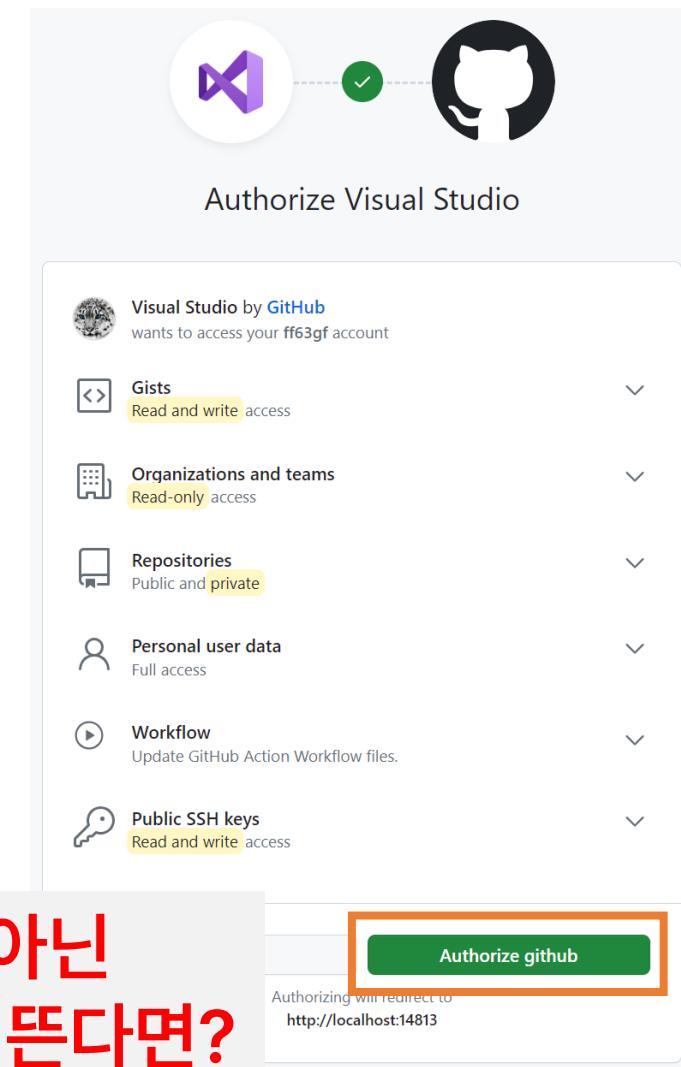
# VS - GitHub 연동



# VS - GitHub 연동



만약 웹브라우저가 아닌  
어색한 로그인 창이 뜬다면?



# VS - GitHub 연동

GitHub 로그인 용 토큰(외부 로그인 전용 비밀번호) 발급 및 로그인

<https://lifefun.tistory.com/161>

Settings / Developer settings

GitHub Apps  
OAuth Apps  
**Personal access tokens** Beta  
Fine-grained tokens  
Tokens (classic)

Personal access tokens (classic)

Tokens you have generated that can be used to access the GitHub API.

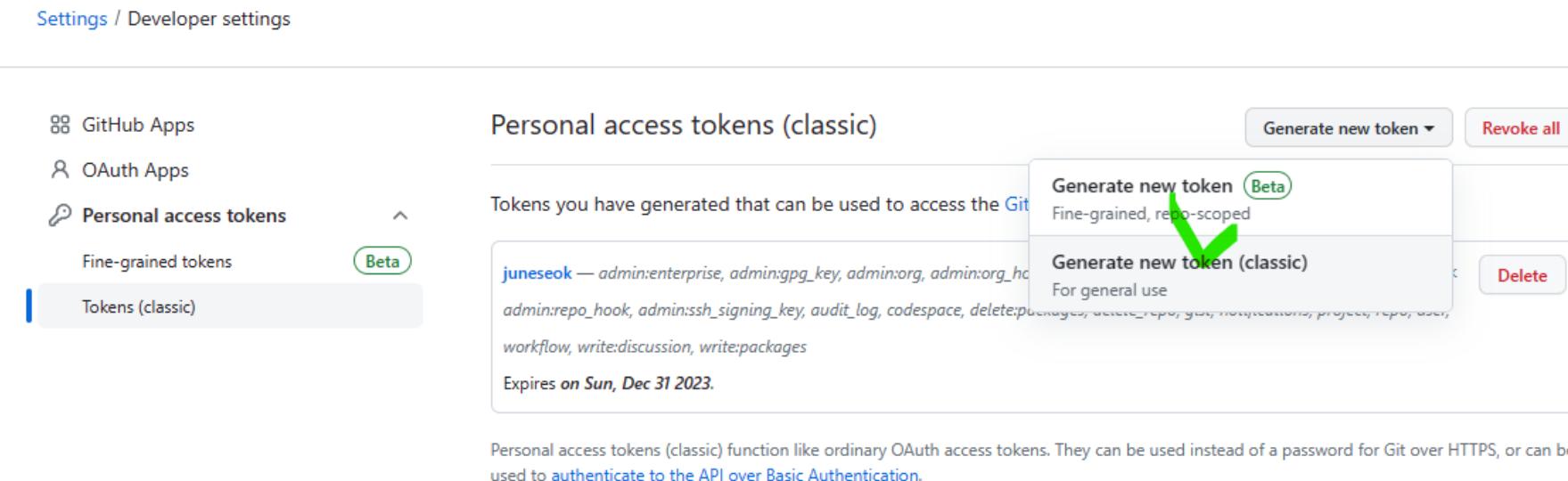
**Generate new token** Beta  
Fine-grained, repo-scoped

**Generate new token (classic)**  
For general use

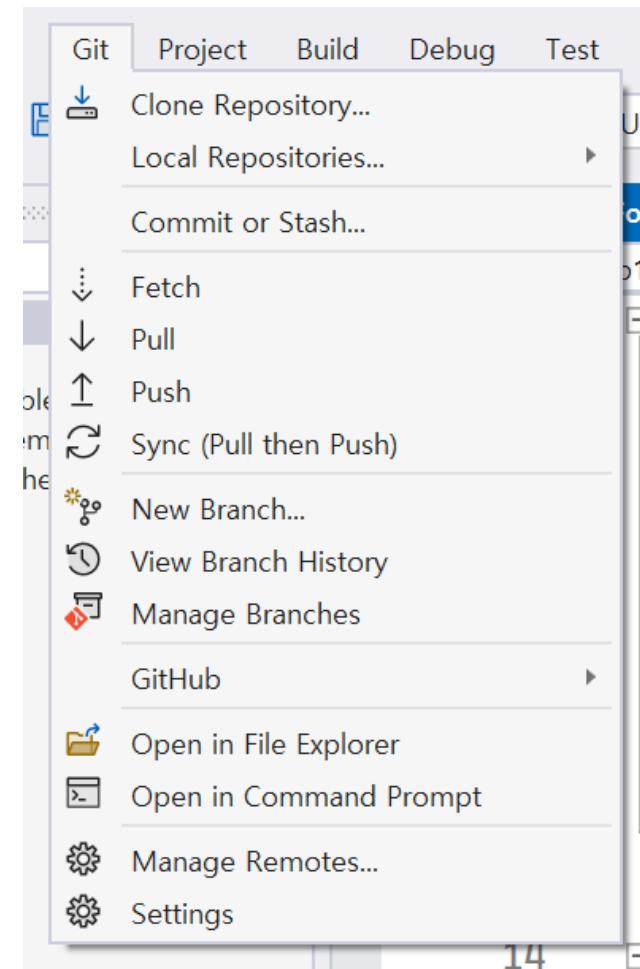
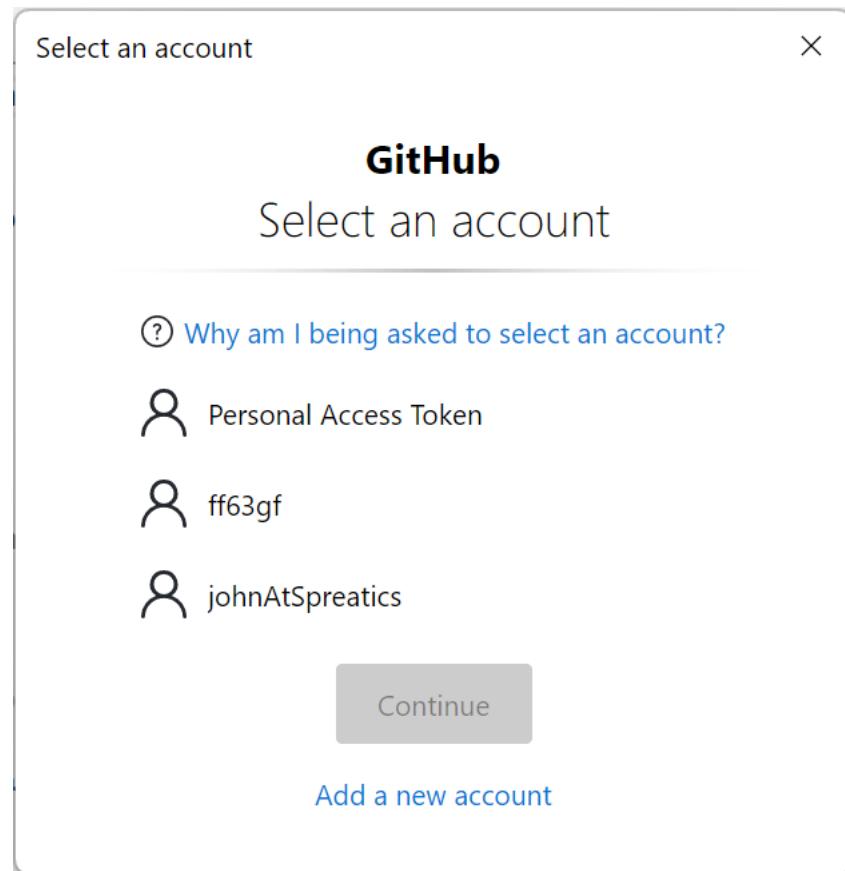
juneseok — admin:enterprise, admin:gpg\_key, admin:org, admin:org\_hook, admin:repo\_hook, admin:ssh\_signing\_key, audit\_log, codespace, delete:pull\_request, delete\_repo, fork, merge, pull\_request\_review, project, repository, workflow, write:discussion, write:packages

Expires on Sun, Dec 31 2023.

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.



# VS - GitHub 연동



계정 연동 성공 시  
모든 기능이 활성화됨

# VS - Git Add

```
--  
14 14     namespace WindowsFormsApp1  
15 15     {  
16 16         public partial class Form1 : Form  
17 17         {  
18 18             public Form1()  
19 19             {  
20 20                 InitializeComponent();  
21 21                 int a = 0;  
22 22             }  
23 23         }  
24 24     }
```

코드에 변동 사항이 생기면

```
--  
20  
21  
22 22     InitializeCom  
23 23     Added - Not Saved (Alt+F8) 0;  
24 24     0 references
```

Add 할 요소가 표시됨

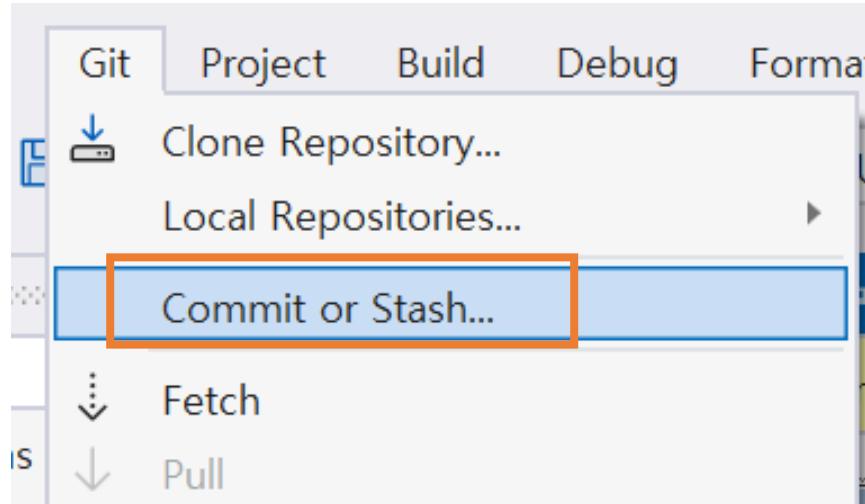
# VS - Git Add

변경 사항에 대해 Add 실행

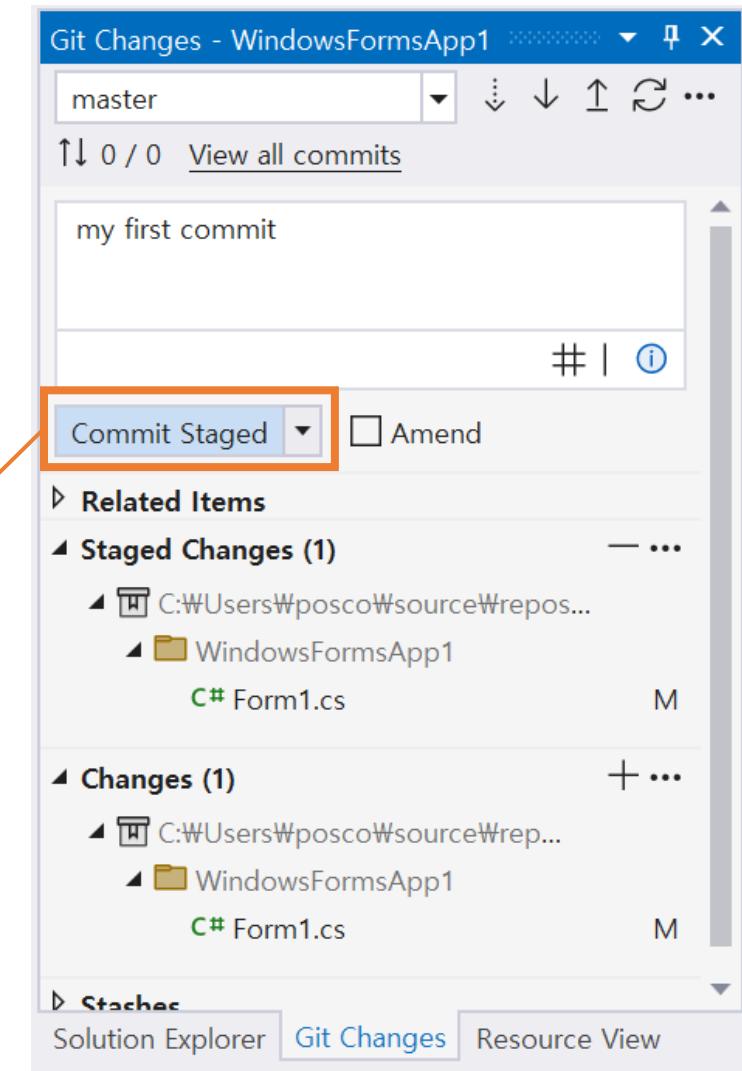
```
int a = 0;
↑ ↓ 1 change -0 +2 + Stage Lines 21-22 ↻
18     public Form1()
19     {
20         InitializeComponent();
21     }
22
23     double Calculation(double num1,
24
25
Diff - Form1.cs*  X
Show staging controls
public Form1()
{
    InitializeComponent();
}
double Calculation(double num1, :
```

클릭하여 자세한 변동 사항을 체크 할 수 있음

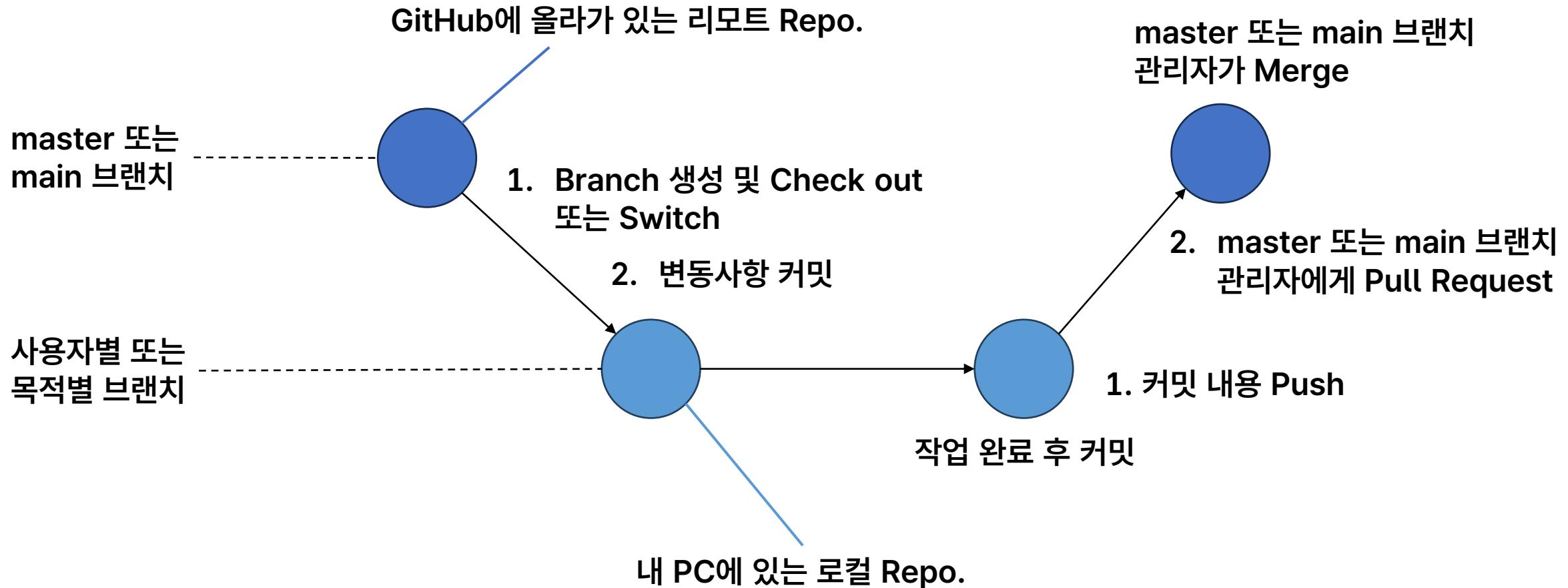
# VS - Git Commit



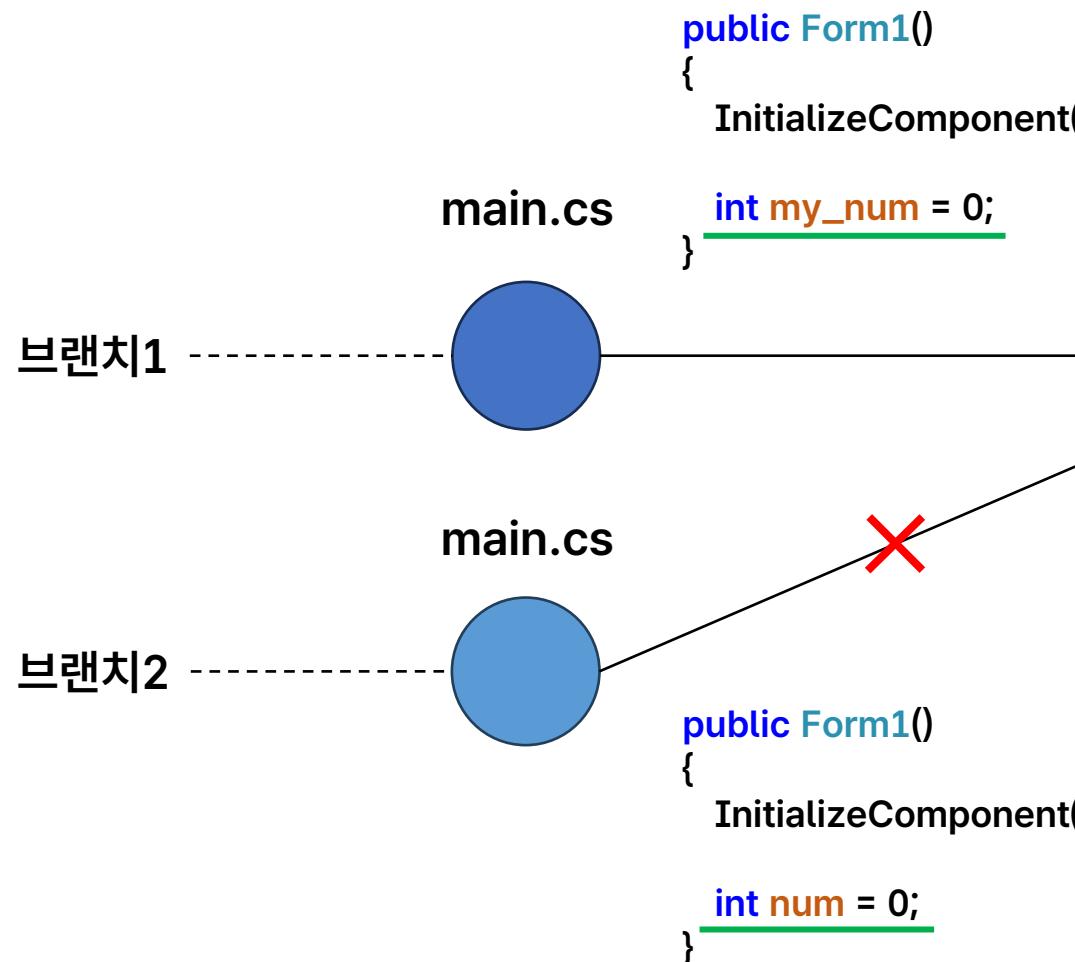
메모 작성 및 Commit 실행



# VS - Git Branch 사용 예시



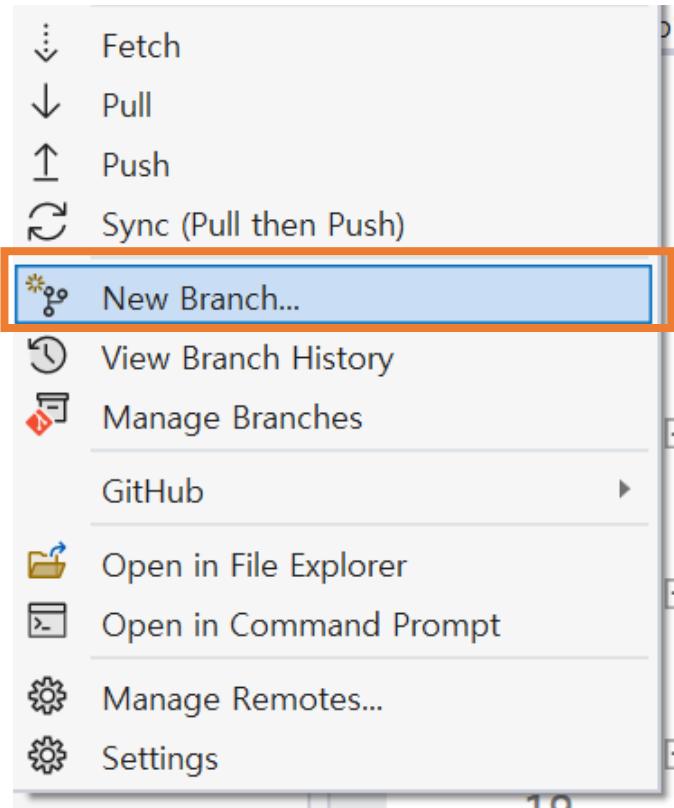
# VS - Git Branch 사용 예시



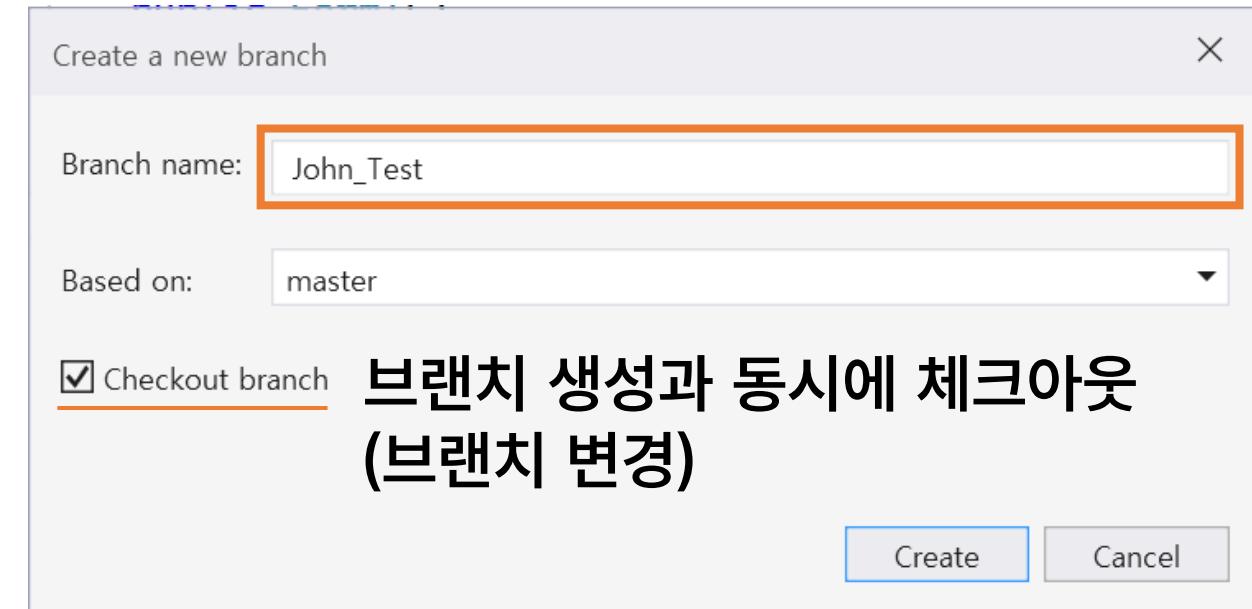
각 브랜치의 커밋 노드에서  
같은 파일의 같은 부분을 편집했다면  
Merge가 안됨

둘 중 하나의 변동 사항을 포기해야함

# VS - Git Branch

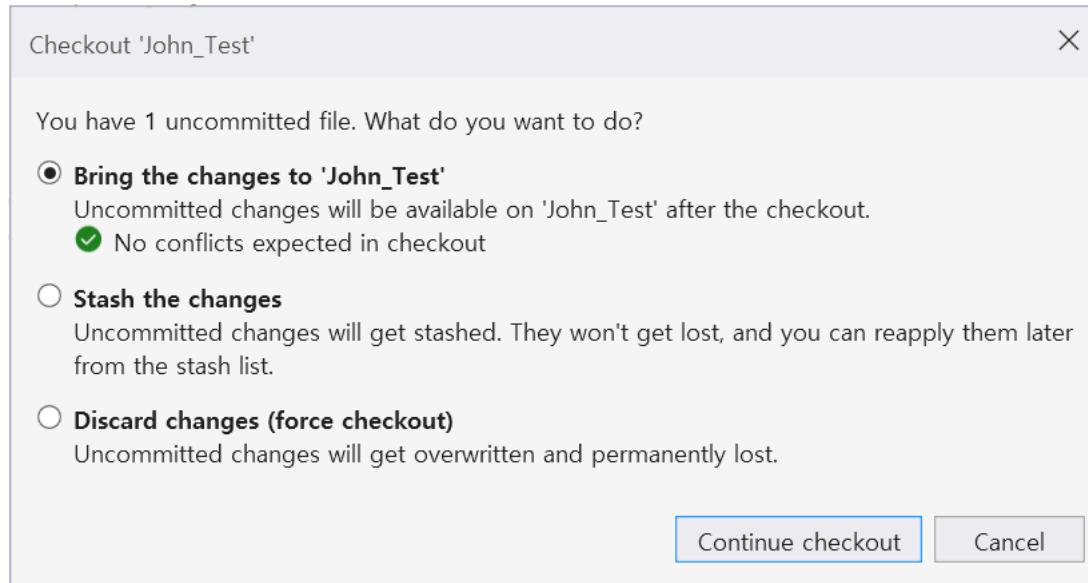


개발에 사용할 브랜치 생성

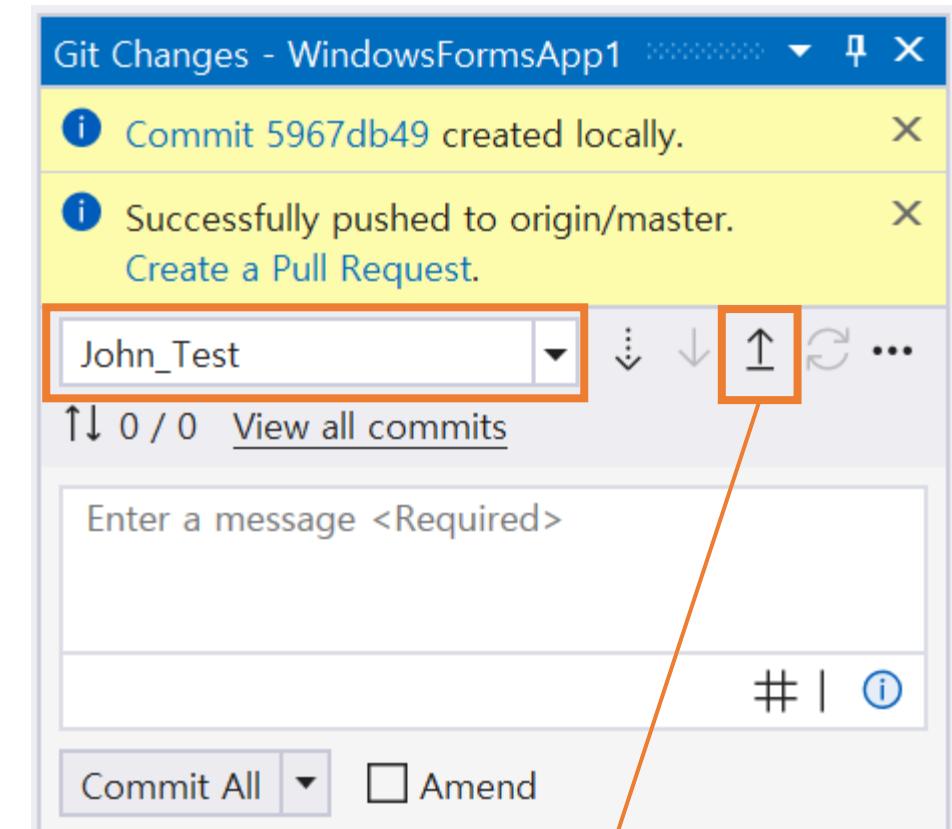


브랜치 이름과 뺀어 나올 원래 브랜치 선택

# VS - Git Branch

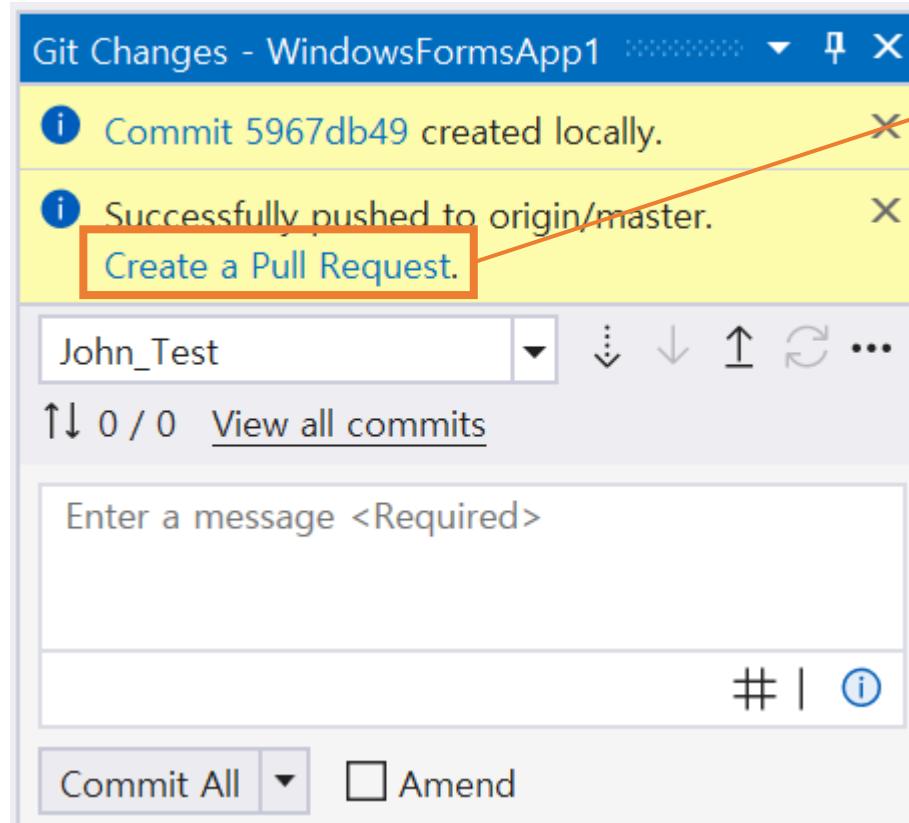


Commit 할 내용이 없어야 체크아웃 가능



개인 브랜치로 Push

# VS - Git Pull Request



Pull Request 만들기

\* Pull Request 란?

master 또는 main 브랜치 관리자에게

개인 브랜치에서 Push 한 내용을

master 또는 main 브랜치와 Merge 해달라는 요청

# VS - Git Pull Request

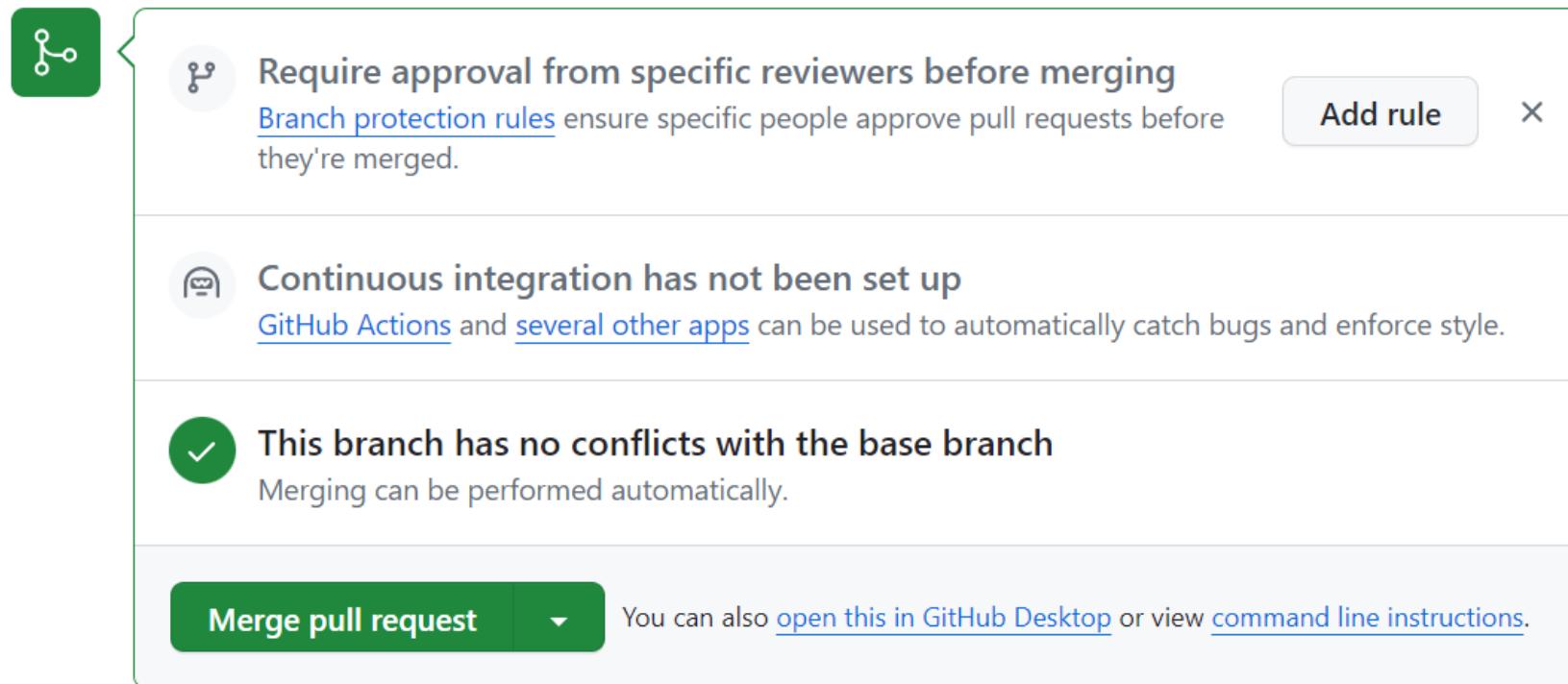
Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. Learn more about diff comparisons here.

# GitHub Pull Request 페이지가 자동으로 열림

# VS - Git Pull Request

Add more commits by pushing to the [John\\_Test](#) branch on [ff63gf/WindowsFormsApp1](#).



The screenshot shows the merge status for a pull request on GitHub. It includes a summary message, three review items, and a merge button.

**Summary:** Add more commits by pushing to the [John\\_Test](#) branch on [ff63gf/WindowsFormsApp1](#).

**Review Items:**

- Require approval from specific reviewers before merging**  
[Branch protection rules](#) ensure specific people approve pull requests before they're merged. [Add rule](#) [X](#)
- Continuous integration has not been set up**  
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.
- This branch has no conflicts with the base branch**  
Merging can be performed automatically.

**Merge button:** Merge pull request ▾ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

GitHub Repo. 관리자에게 이렇게 요청이 옴

# VS - Git Pull Request

Add more commits by pushing to the [John\\_Test](#) branch on [ff63gf/WindowsFormsApp1](#).



Merge pull request #1 from ff63gf/John\_Test

my second commit

This commit will be authored by 56570841+ff63gf@users.noreply.github.com

[Confirm merge](#)

[Cancel](#)

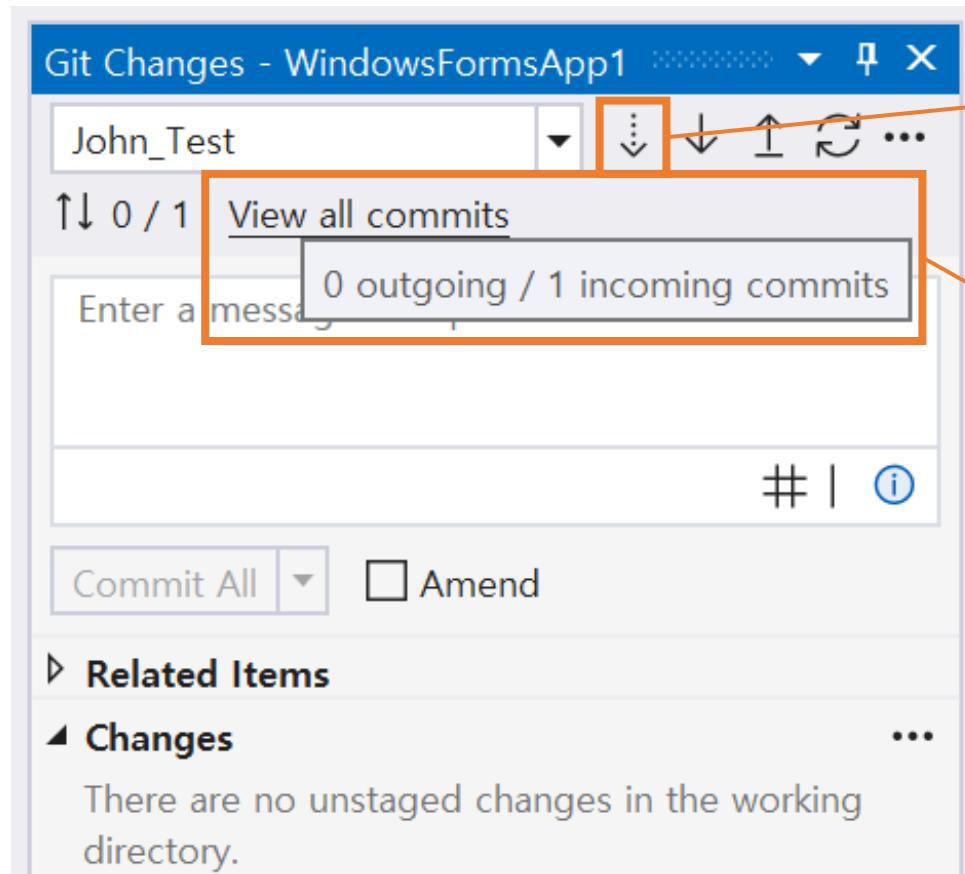


Pull request successfully merged and closed

You're all set—the [John\\_Test](#) branch can be safely deleted.

[Delete branch](#)

# VS - Git Fetch & Pull

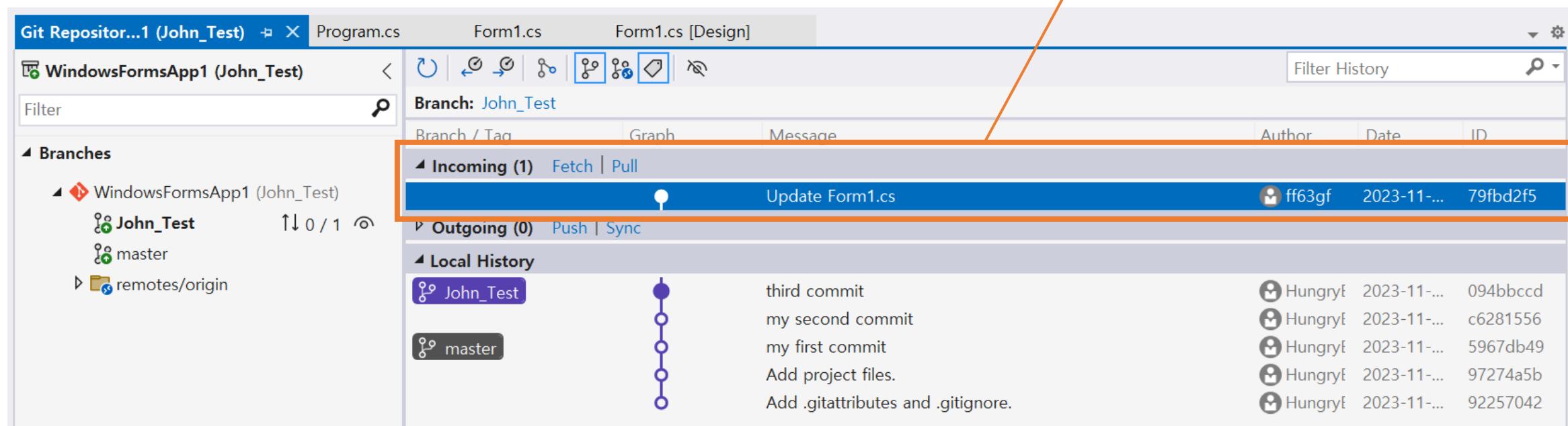


Fetch 버튼

전체 커밋 목록에서 Fetch 내용 확인

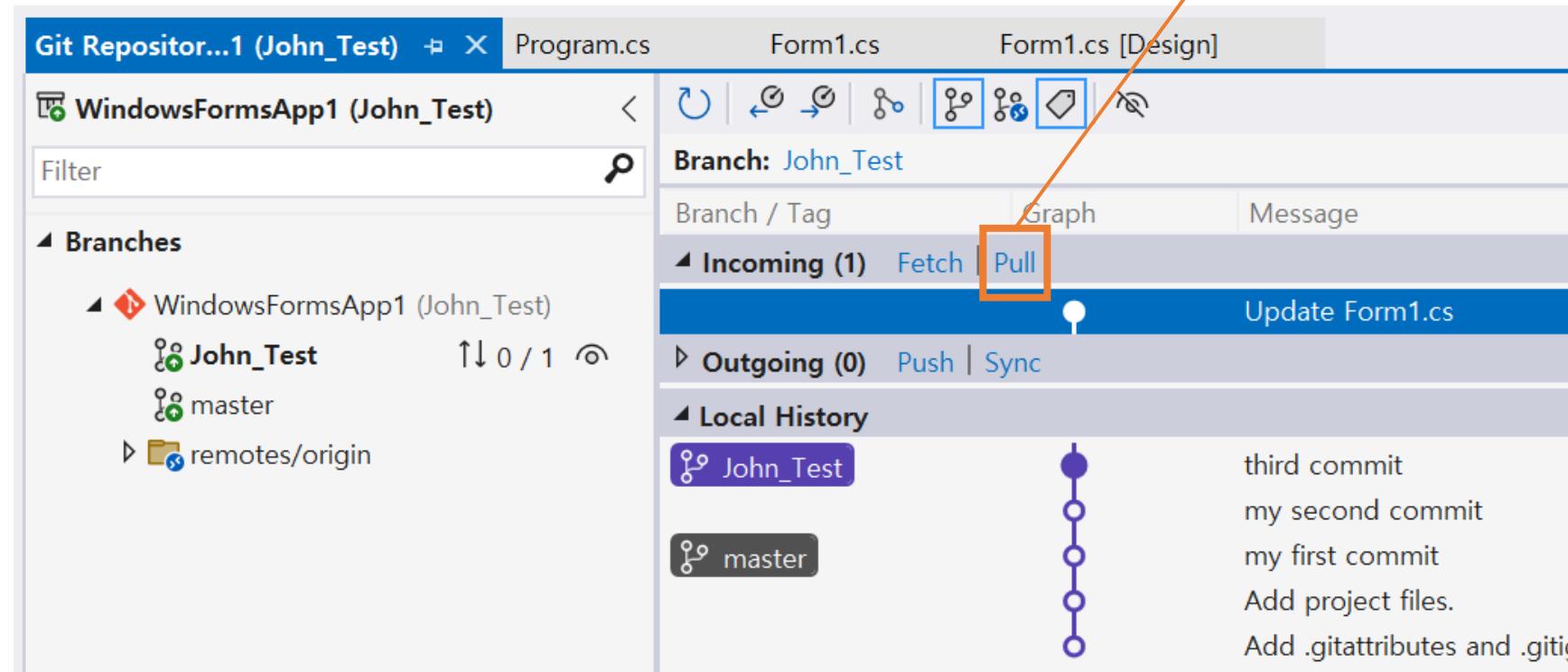
# VS - Git Fetch & Pull

다른 사람이 같은 브랜치에 커밋한 내용

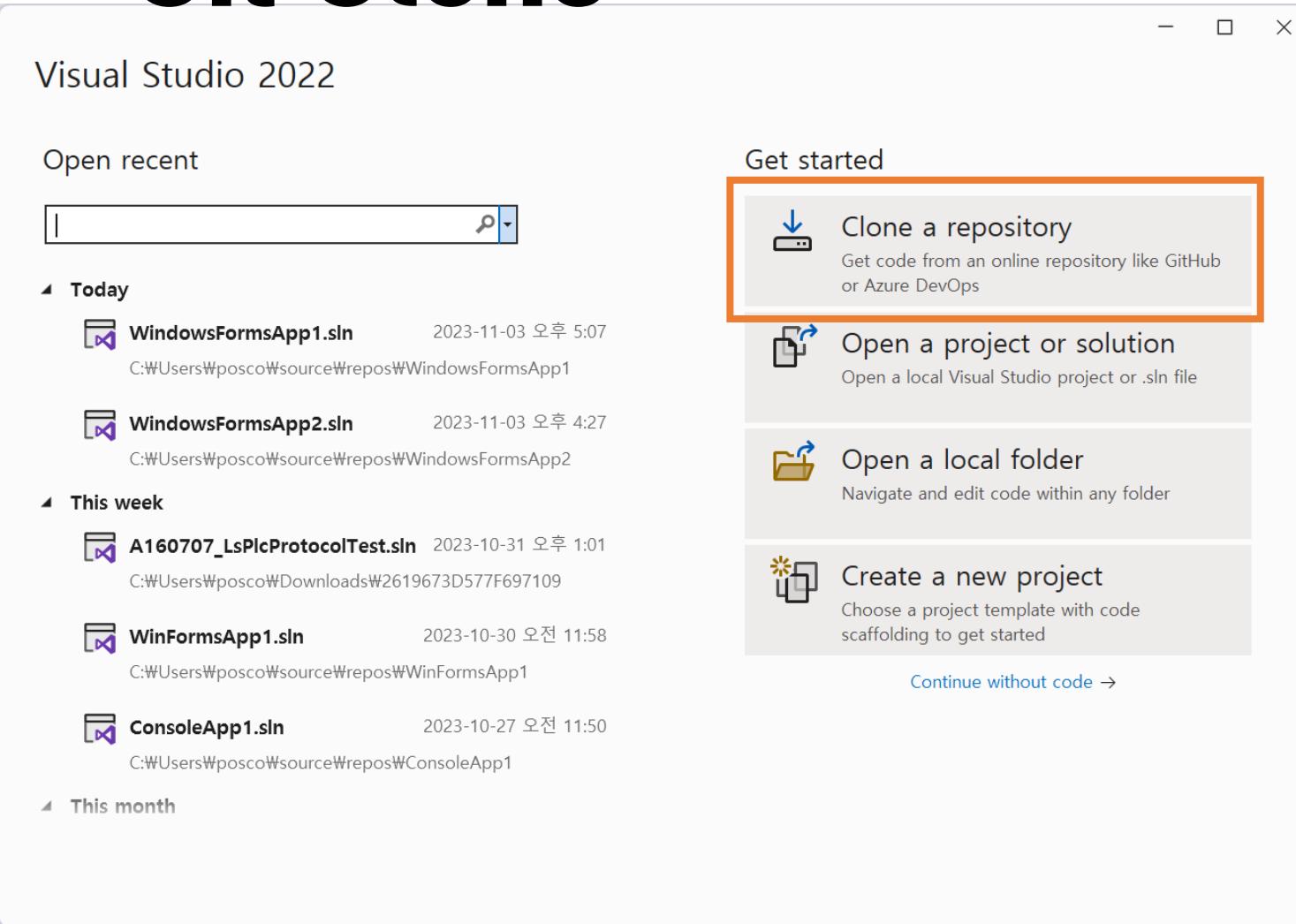


# VS - Git Fetch & Pull

Pull 하여 변동 사항 적용



# VS - Git Clone



# VS - Git Clone

