

## Git Commands – WAD – Assignment 2A

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git

**\$ git init**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git config --global user.name "Yss207"**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git config --global user.email "suryawanshiyash04@gmail.com"**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git add first.txt**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git commit -m "Add first.txt to main"**

[main (root-commit) 143b71f] Add first.txt to main

1 file changed, 1 insertion(+)

create mode 100644 first.txt

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git remote add origin https://ghp\_3TzXgS4XaYdyE8YALSWeCBHnELinZy1ryuMp@com/Yss207/Test\_Repo.git**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git push https://ghp\_3TzXgS4XaYdyE8YALSWeCBHnELinZy1ryuMp@github.com/Yss207/Test\_Repo.git**

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 233 bytes | 116.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/Yss207/Test\_Repo.git

\* [new branch] main -> main

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git status**

On branch main

nothing to commit, working tree clean

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git log --oneline**

143b71f (HEAD -> main) Add first.txt to main

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git checkout -b second-branch**

**Or git branch second-branch** //Create and switch to new branch

Switched to a new branch 'second-branch'

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (second-branch)

**\$ echo "This is the second file." > Second.txt**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (second-branch)

**\$ git add Second.txt**

warning: in the working copy of 'Second.txt', LF will be replaced by CRLF the next time Git touches it

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (second-branch)

**\$ git commit -m "Add Second.txt to second-branch"**

[second-branch c6a8717] Add Second.txt to second-branch

1 file changed, 1 insertion(+)

create mode 100644 Second.txt

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (second-branch)

**\$ git checkout main**

Switched to branch 'main'

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git merge second-branch**

Updating 143b71f..c6a8717

Fast-forward

Second.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 Second.txt

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git branch**

\* main

second-branch

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (main)

**\$ git branch -d second-branch**

Deleted branch second-branch (was c6a8717).

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (new-branch)

**\$ git**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Practice\_Git (the-branch)

**\$ git branch**

main

\* the-branch

## **CLONE & PULL:**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop

**\$ git clone https://github.com/Yss207/Fullstack.git**

Cloning into 'Fullstack'...

remote: Enumerating objects: 12, done.

remote: Counting objects: 100% (12/12), done.

remote: Compressing objects: 100% (7/7), done.

remote: Total 12 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Receiving objects: 100% (12/12), 4.37 KiB | 894.00 KiB/s, done.

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop

**\$ cd Fullstack**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (main)

**\$ git pull**

remote: Enumerating objects: 5, done.

remote: Counting objects: 100% (5/5), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Unpacking objects: 100% (3/3), 934 bytes | 54.00 KiB/s, done.

From https://github.com/Yss207/Fullstack

f27f099..c1de51d main -> origin/main

Updating f27f099..c1de51d

Fast-forward

First.txt | 2 ++

1 file changed, 2 insertions(+)

## RESET & REVERT

### Revert:

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack

### \$ git init

Initialized empty Git repository in C:/Users/Yash/Desktop/Fullstack/.git

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ echo "Line 1" > demo.txt

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ git add .

warning: in the working copy of 'demo.txt', LF will be replaced by CRLF the next time Git touches it

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ git commit -m "Line - 1"

[master (root-commit) d6b67e0] Line - 1

1 file changed, 1 insertion(+)

create mode 100644 demo.txt

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ echo "Line 2" >> demo.txt

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ cat demo.txt

Line 1

Line 2

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ git add .

warning: in the working copy of 'demo.txt', LF will be replaced by CRLF the next time Git touches it

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

### \$ git commit -m "Line-2"

[master 17a54aa] Line-2

1 file changed, 1 insertion(+)

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git log --online**

17a54aa (**HEAD -> master**) Line-2

d6b67e0 Line - 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git revert 17a54aa --no-edit**

[master c07ce0e] Revert "Line-2"

1 file changed, 1 deletion(-)

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ cat demo.txt**

Line 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git log --online**

c07ce0e (**HEAD -> master**) Revert "Line-2"

17a54aa Line-2

d6b67e0 Line – 1

**RESET:**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ echo "Line 2" >> demo.txt**

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ cat demo.txt**

Line 1

Line 2

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git log --online**

c07ce0e (**HEAD -> master**) Revert "Line-2"

17a54aa Line-2

d6b67e0 Line - 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git add .**

warning: in the working copy of 'demo.txt', LF will be replaced by CRLF the next time Git touches it

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git commit -m "Re-added line 2"**

[master fcca3f0] Re-added line 2

1 file changed, 1 insertion(+)

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git log --oneline**

fcca3f0 (HEAD -> master) Re-added line 2

c07ce0e Revert "Line-2"

17a54aa Line-2

d6b67e0 Line - 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git reset --hard 17a54aa**

HEAD is now at 17a54aa Line-2

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ cat demo.txt**

Line 1

Line 2

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git log --oneline**

17a54aa (HEAD -> master) Line-2

d6b67e0 Line - 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git reset --hard d6b67e0**

HEAD is now at d6b67e0 Line - 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ cat demo.txt**

Line 1

Yash@LAPTOP-JA7V1P1N MINGW64 ~/Desktop/Fullstack (master)

**\$ git log --oneline**

d6b67e0 (**HEAD -> master**) Line - 1

**git revert:**

- **What it does:** Creates a new commit that undoes the changes made by a previous commit.
- **Safe to use:** Yes, especially on **shared or remote branches**.
- **Think of it like:** Saying “Oops, I want to undo that, but let’s keep the history clean and intact.”

✅ Good for: Undoing mistakes **without rewriting history**.

🔥 **git reset --hard:**

**git reset --hard <commit>** moves your branch **to a previous commit** and **completely deletes all changes** made after that commit — from both:

- The **staging area** (what you planned to commit)
- The **working directory** (your actual files)