**Git**

HandsOn 5

**Explain how to clean up and push back to remote Git:**

**1. Clean up your working directory**

Cleaning up means making sure your branch is in a *clean state* — no uncommitted changes, no untracked junk files.

Check status

git status

If you see nothing to commit, working tree clean → you’re good.  
If you see changes, you have two options:

Option A — Keep the changes

git add . git commit -m "Save work before push"

**2. Pull latest updates from remote**

Make sure your local branch is up to date before pushing.

git pull --rebase origin <branch-name>

Example:

git pull --rebase origin master

**3. Push your changes to remote**

git push origin <branch-name>

**Example:**

git push origin Git-T03-HOL\_002

If it’s the first push of a new branch:

git push -u origin Git-T03-HOL\_002

(-u sets the remote branch as the default for future pushes.)

**4. Verify on remote**

* Go to your repository in GitLab/GitHub.
* Check that your commit appears in the branch.

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git init

Initialized empty Git repository in C:/Users/HP/Documents/git-handson5/.git/

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git branch --show-current

master

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git status

On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git status --porcelain

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git add .

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git commit -m "Save work for Git-T03-HOL\_002"

On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git status --porcelain

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git add .

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git commit -m "Save work for Git-T03-HOL\_002"

On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git stash push -m "WIP before pull"

You do not have the initial commit yet

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git branch -a

HP@HP MINGW64 ~/Documents/git-handson5 (master)

$ git branch -r

HP@HP MINGW64 ~/Documents/git-handson5 (Git-T03-HOL\_002)

$ git branch

HP@HP MINGW64 ~/Documents/git-handson5 (Git-T03-HOL\_002)

$ git checkout -b Git-T03-HOL\_002

Switched to a new branch 'Git-T03-HOL\_002'

HP@HP MINGW64 ~/Documents/git-handson5 (Git-T03-HOL\_002)

$ echo "Hello Git HOL" > test.txt

HP@HP MINGW64 ~/Documents/git-handson5 (Git-T03-HOL\_002)

$ git add test.txt

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

HP@HP MINGW64 ~/Documents/git-handson5 (Git-T03-HOL\_002)

$ git commit -m "Initial commit for Git-T03-HOL\_002"

[Git-T03-HOL\_002 (root-commit) f0a41be] Initial commit for Git-T03-HOL\_002

1 file changed, 1 insertion(+)

create mode 100644 test.txt

HP@HP MINGW64 ~/Documents/git-handson5 (Git-T03-HOL\_002)

$ git push -u origin Git-T03-HOL\_002

Enumerating objects: 3, done.

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

Writing objects: 100% (3/3), 249 bytes | 249.00 KiB/s, done.

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

remote:

remote: To create a merge request for Git-T03-HOL\_002, visit:

remote: https://gitlab.com/dhatchayini/git-handson5/-/merge\_requests/new?merge\_request%5Bsource\_branch%5D=Git-T03-HOL\_002

remote:

To https://gitlab.com/dhatchayini/git-handson5.git

\* [new branch] Git-T03-HOL\_002 -> Git-T03-HOL\_002

branch 'Git-T03-HOL\_002' set up to track 'origin/Git-T03-HOL\_002'.

