

Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

○ Git lab

1. Create a blank project
2. Enter the project name.
3. Choose the username.
4. Change private to public.
5. Remove the checkbox from the readme.

○ Commands

- `git init` • `git add .`
- `git commit -m "First Commit"`
- `git remote add origin http://10.10.16.125:8929/b121user12/assignment`
- `git push -u origin master`

Assignment 2: Branch Creation and Switching. Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

- `touch file4.txt`
- `ls -l`
- `git branch`
- `vim file4.txt`
- `cat file4.txt`
- `git add file4.txt`
- `git commit -m 'file4 has been committed'`
- `git checkout main`
- `git checkout master`
- `ls -ltr`
- `git merge feature`
- `ls -ltr`
- `git log`
- `git checkout master`
- `git merge feature`
- `git commit -m 'file4 add'`
- `git push -u origin master`

Assignment 3: Feature Branches and Hotfixes. Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

- `git checkout main`
- `git branch hotfix`
- `git commit -m "Fixed the issue"`
- `git checkout main`
- `git merge hotfix`
- `git commit -m "Merged hotfix into main"`