





Please follow the instruction to complete the hands-on. Each instruction expects a command for the Git Bash.

### Branching:

1. Create a new branch “**GitNewBranch**”.
2. List all the local and remote branches available in the current trunk. Observe the “\*” mark which denote the current pointing branch.
3. Switch to the newly created branch. Add some files to it with some contents.
4. Commit the changes to the branch.
5. Check the status with “**git status**” command.

### Merging:

1. Switch to the master
2. List out all the differences between trunk and branch. These provide the differences in command line interface.
3. List out all the visual differences between master and branch using **P4Merge tool**.
4. Merge the source branch to the trunk.
5. Observe the logging after merging using “**git log –oneline –graph –decorate**”
6. Delete the branch after merging with the trunk and observe the git status.

Name	Date modified	Type	Size
 .git	09-08-2025 11:12 AM	File folder	
 branch_changes	09-08-2025 11:00 AM	Text Document	1 KB
 newfile	09-08-2025 11:00 AM	Text Document	1 KB
 README	09-08-2025 10:51 AM	Markdown Source ...	1 KB

```
(base) sanjays-MacBook-Air:git-lab sanjay$ mkdir git-lab
(base) sanjays-MacBook-Air:git-lab sanjay$ cd git-lab
(base) sanjays-MacBook-Air:git-lab sanjay$ git init
Initialized empty Git repository in /Users/sanjay/Desktop/gitdemo/git-lab/git-lab/.git/
(base) sanjays-MacBook-Air:git-lab sanjay$ git config --global user.name "S.Sanjay"
(base) sanjays-MacBook-Air:git-lab sanjay$ git config --global user.email "sanjays1122004@gmail.com"
(base) sanjays-MacBook-Air:git-lab sanjay$ echo "Initial repository setup" > README.md
(base) sanjays-MacBook-Air:git-lab sanjay$ git add README.md
(base) sanjays-MacBook-Air:git-lab sanjay$ git commit -m "Initial commit"
[master (root-commit) 84b4918] Initial commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch
* master
(base) sanjays-MacBook-Air:git-lab sanjay$ git merge GitNewBranch
merge: GitNewBranch - not something we can merge
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch
* master
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch GitNewBranch
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch
GitNewBranch
* master
(base) sanjays-MacBook-Air:git-lab sanjay$ git merge GitNewBranch
Already up to date.
(base) sanjays-MacBook-Air:git-lab sanjay$ git checkout main
error: pathspec 'main' did not match any file(s) known to git.
(base) sanjays-MacBook-Air:git-lab sanjay$ git checkout master
Already on 'master'
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch
GitNewBranch
* master
(base) sanjays-MacBook-Air:git-lab sanjay$ git merge
fatal: No remote for the current branch.
(base) sanjays-MacBook-Air:git-lab sanjay$ git merge GitNewBranch
Already up to date.
(base) sanjays-MacBook-Air:git-lab sanjay$ git log --oneline --graph --decorate
* 84b4918 (HEAD -> master, GitNewBranch) Initial commit
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 84b4918).
(base) sanjays-MacBook-Air:git-lab sanjay$ git status
On branch master
nothing to commit, working tree clean
(base) sanjays-MacBook-Air:git-lab sanjay$ git branch -a
* master
(base) sanjays-MacBook-Air:git-lab sanjay$ █
```