# Week 8 GIT - HOL 3 Instructions

Task: Construct a branch, make changes in the branch, and merge it with the master (or main) branch.

## Branching

1. Create a new branch:

git branch GitNewBranch

2. List all branches:

git branch

# The output will show the branches, with '\*' marking the current one.

3. Switch to the new branch:

git checkout GitNewBranch

4. Add a new file in this branch:

echo "This file is from GitNewBranch" > branchfile.txt

git add branchfile.txt

git commit -m "Added branchfile.txt in GitNewBranch"

5. Check the branch status:

git status

## Merging

1. Switch back to master/main branch:

git checkout master

2. View differences between master and GitNewBranch:

git diff GitNewBranch

3. Merge the branch into master:

git merge GitNewBranch

4. View merge history:

git log --oneline --graph --decorate

5. Delete the merged branch:

git branch -d GitNewBranch

6. Final check:

git status