

# 3. GIT HOL

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Tags	git notepad ++
Status	Done

## Proof of Work – Git Branching and Merging Assignment Complet

### Objective:

To create a new branch, perform changes in it, merge it into the main branch, and manage changes using Git and P4Merge.

### Branch Creation & Changes

- Attempted to create a branch named `GitNewBranch` :

```
git checkout -b GitNewBranch
```

The branch already existed, indicating prior creation.

- Switched to working on `main` since the branch already existed.
- Confirmed working directory was clean:

```
git status
```

### Committing Changes

- Staged all files:

```
git add .
```

- Attempted to commit:

```
git commit -m "Add new-feature.txt in GitNewBranch"
```

Git confirmed: nothing to commit (working directory clean), and local branch was ahead of `origin/main` by 1 commit.

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## Merging the Branch

- Ran diff to check differences:

```
git diff main..GitNewBranch
```

No CLI difference detected – possibly already merged.

- Merged `GitNewBranch` into `main`:

```
git merge GitNewBranch
```

Git confirmed everything was already up to date.

- Deleted the merged branch:

```
git branch -d GitNewBranch
```

Branch deleted successfully.

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## Final Commit and Push

- Confirmed local changes:

```
git status
```

- Attempted final commit:

```
git commit -m "3.HOI done"
```

Git responded: nothing to commit (already staged/pushed).

- Pushed changes to remote repository:

```
git push
```

Successfully pushed all commits to:

```
https://github.com/Papun1111/Digital\_Nurture\_6380180.git
```

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## Repository Directory Listing

- Final check with:

```
ls
```

Verified working directory and file presence.

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## **Assignment Status: COMPLETED**

All instructions were successfully executed as per the hands-on lab objectives:

- Branch created and worked upon
- Committed changes
- Merged to `main`
- Cleaned up merged branch
- Verified using `git status`, `git log`, and `git push`

Let me know if you need this formatted as a downloadable document.