



# Merges & Branch Deletion

- to merge a branch back into the main branch:

1. make sure youre on the main branch

```
git checkout main
```

2. update the local main branch

- a. important to have the latest changes from the remote main branch to avoid conflicts

```
git pull origin main
```

3. merge the new feature branch into main branch

```
git merge new-feature //replace new feature with the name of the
```

4. push the changes to the remote main branch back onto GitHub

```
git push origin main
```

## Merging via GitHub Pull Requests

1. push the new feature branch onto GitHub

```
git push origin new-feature
```

2. create a pull request
3. Title the PR and describe changes you made, specify issues. etc.
4. **Review and merge the PR:** review the request with your team, if everyone approve then you are ready to click "Merge pull request" which will merge these changes into main
5. **Delete feature branch:** best practise to delete any feature branches once they have been merged into main to keep the repository clean

## Deleting Local Branches

- first make sure you are **not on the branch you wish to delete**
- to delete a branch use git branch with the -d flag followed by the branch name:

```
git branch -d branch-name
```

## Deleting Remote Branches

- to delete branch on remote repository (e.g. GitHub) use the git push command with the delete flag followed by name of the remote (usually origin) and the branch name:

```
git push --delete origin branch-name
```

- this command tells Git to delete the 'branch-name' on the remote repository named 'origin'

## Benefits of Pull Requests

- allows all team members to review and discuss code before it merges into main
- documentation of changes

- Pull requests provide documented history of the changes made to the project and the reasoning behind the changes
- **Automated checks:** allows Continuous integration tools to automatically run tests on pull requests to ensure that changes do not break existing functionality