In github we can create brunches and we can merge those branches.

Generally we are working on MASTER branch. But we can create multiple brunches with master brunch for a repository.

Say, we have software in the production mode which hosted into master branch. Now **if we make changes into code and directly push into production server then may be full system gets crashed!**

For avoiding these problems, we can make different branches for that software repository in github.

Like branch: ***master, public beta (semi-stable) & early access (not-stable)***

Let’s talk about how to make branches because master brunch get already created during creating a repository.

For creating a new branch using vs code, view -> command pallete or, ‘ctrl+shift+p’ => create new branch.

After selecting the branch we can make commit and push changes into that particular branch.

We can merge brunches. It can be done much way. In github we can merge brunches or, we can do with the help of vs code.

\*\* **merging two or more branches**:

1. Create a pull request first
2. Then merge two branches using “merge pull request”

Say our application has 3 branches – master, public preview and dev channel.

Now we can merge code from dev->public and then public->master.

\*\* **deleting branches:**

We can delete branches by click on “view branches”. From that, you will find many branches and if you hit on dustbin icon then that branch must be removed.

But except you can’t delete “main” branch, except you need to delete the whole repository.

**Git Pull vs Pull request**

If you use git pull, you pull the changes from the remote repository into yours.

Simple, we can say if we make changes into files into any branch in repository, then locally in your computer that changes can’t make any effect. For that we need to do GIT PULL via vscode.

If you send a pull request to another repository, you ask their maintainers to pull your changes into theirs (you more or less ask them to use a git pull from your repository).

**Git fetch vs git pull**

Git fetch generally download code changes which done by other contributors into that branch.

But, when we do git pull it generally fetch all the changes and then merge pull requests into remote as well as local system. Remember, when you make a pull request then may be conflicts occur.

Git pull = git fetch + git merge

**Delete branch from local system**

If we delete any branch from remote git server. Though from local computer system that branch don’t deleted. For that we need to manually delete that branch.

We can do from vscode.