**Udemy learning part-2**

* **Branches:**
* Branching in git is the process of creating a new, independent line of development in a repository. This allows developers to work on new features, bug fixes, or other changes without affecting the main codebase.
* You can merge a branch into another branch using a pull request.
* **Different types of branches:**
* **Master:**

the master branch which will create contains production code all development code is merge into master after release.

* **Develop:**

This branch contains the pre-production code inside develop branch we have create number of branches.

* **Feature:**

a branch created for a specific feature or set of features.

* **Release:**

a branch created for a specific release or version of the software.

* **Bug fix:**

it fixes the bugs.

* **Create branches:**
* **Git branch <branch name> -** it creates new branch
* **Git branch-** it shows all the branches under the repository.
* **Git checkout <branch name>-** switch from one branch to another.
* **Git push --set-upstream origin <branch name>-** push a new branch to a remote repository and upstream tracks the information for branch.
* **Git branch -d <branch name> -** it deletes the branch
* **Git diff branch name..branch name-** it shows difference between two branches**.**
* **How to create pull request and merge one branch into another:**
* Merge data from feature branch to develop branch
* Select feature branch
* Select base branch is develop and compare branch is feature.
* Click on pull request
* Click on create pull request
* Add new description
* Click on create pull request
* Click on merge pull request
* Click on confirm merge.