**What is git and GitHub?**

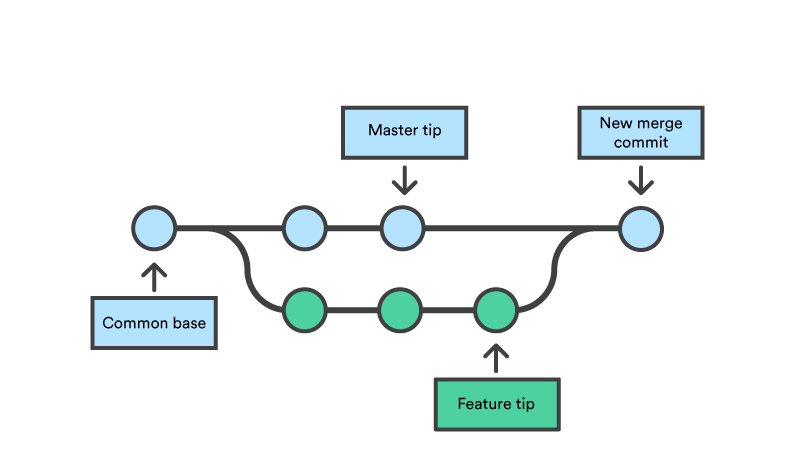
Git is a distributed version control system that tracks changes in any set of computer files, usually used for coordinating work among programmers collaboratively developing source code during software development.

**Git Commands**

* git clone
  + This command is used to clone the remote repository from github to the local computer
* git add filename
  + This command is used to add the file to the git stage, to make the git aware of the new file. We can add multiple files by using \* wildcard
* git commit
  + This command is used to commit the files to the local git repository with the commit message; -m option is used to add a message.
* git push
  + This command is used to sync the local git repository with the remote git. It pushes all the changes done to the local files to remote git.
* git pull
  + This command is used to take the latest changes from remote git repository to local git repository.
* git checkout
  + This command is used to switch between git branches, option -b is used to create a new branch and option -D is used to delete the old branch
* git merge
  + This command is used to merge two different branches in local git repository
* git status
  + This command is used to check the status of the local repository.
* git diff
  + This command is used to find the difference between the files in local git, it is also used to find the difference between two commits
* git log
  + This command is used to find the history in GitHub

**Git Branch**

 Each branch of a project saves different versions of it. Git branches are effectively a pointer to a snapshot of your changes. When you want to add a new feature or fix a bug—no matter how big or how small—you spawn a new branch to encapsulate your changes



By developing the features in branches, it’s not only possible to work on each one in parallel, but it also keeps the main branch free from questionable code.