**Git&GitHub**

**Introduction:**

* Git is an open source distributed version control system or source code management system which is used to manage the different versions of source code while creating.
* We are having two types of version control systems
  + Centralized version control system
  + Distributed version control system
* In Centralized version control system you will be having a centralized system repository where all the users’ changes will be committed when they had made any changes in the code or file.
* If there are any connectivity issues or if the centralized system repository has crashed suddenly, then no user can access the repository to know the changes of the source code.
* To overcome the above issue they had come up with ‘Subversion’ and later ‘Distributed version system’.
* In Distributed version system you will be having a centralized version control system as well as Local control version system, where your code will be stored in the local repository as well.
* By the use of Local repository you can track the changes of the source code which is in sync with centralized repository.

**Features of Git:-**

* Track changes in a file
* Manage source
* Versioning and branching
* Compare code
* Merge branch
* Compare branches