**Types of version control system**

* Local Version Control System
* Centralised Version Control System
* Distributed Version Control System(Github)

**Usage of Version control system and git**

* Collaborate with fellow engineers
* Maintain history of project development

**LINUX COMMANDS**  
**pwd**: Print the current working directory.

**ls**: List files and directories.

* ls -l: Long listing format.
* ls -a: Show hidden files.

**cd [directory]**: Change directory.

* cd ..: Move up one directory.
* cd ~: Go to the home directory.

**mkdir [name]**: Create a directory.

**rmdir [name]**: Remove an empty directory.

**Initializing local repositories**

git status :It provides the overall health and visibility of the present repository.

git init :initialize empty git repository.

git add : add files to the staging area/unattracted files.

git config –-global -l : check configuration, owner of repository(-l provides list).

git config –global user.name “Gurasees”

git config –global user. email “[guraseesshd46@gmail.com](mailto:guraseesshd46@gmail.com)”

git add <file> :to stage/track file.

git add . :to stage all files

git commit -m “Message” : snapshot of the project at a specific point in time

git log : To view the history of all commits in the repository.

git diff : help in getting difference between last committed file and present.

touch <file>

rm <file>