

## TASK 1

Research and Prepare a document on the following topics.

- **Git: Understand what Git is and know it's basic commands**

➤ **GIT**

Git is a free open-source distributed version control system for handling everything from small to large projects. It is also used for the source code management. With the help of git, you can track the changes or keep the records of who made changes to what part of a file, it easy to collaborate with others as you can share the changes and merge the changes made by different people into a single version of a file.

### **BASIC COMMANDS**

- **git init** : Create empty Git repository in the specified directory.
- **git clone** : Creates a local copy of a project that already exists remotely. The clone includes all the project's files, history, and branches.
- **git add** : Adds files in the to the staging area for Git.
- **git commit**: Record the changes made to the files to a local repository.
- **git status**: This command returns the current state of the repository.
- **git branch**: To determine what branch the local repository is on, add a new branch or delete a branch.
- **git merge**: Merges changes from the specified branch to the current branch.
- **git pull**: Pulls the changes from your remote repository and merges them to your current branch.
- **git push**: Pushes committed changes to a remote repository.
- **git checkout**: Switching between branches or commits.

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