CW1

Introduction: -

Git is a control system that allows developers to track changes that have been made to the source code during the development phase. Add, commit and push are one of the most fundamental operations in Git. These steps serve as an important role in code management and improving collaboration with other developers

Git add: -

The purpose of Git add is to move changes forma the working directory to the staging area which prepares the changes to be committed

git add file name # Adds a specific file

git add . # Adds all changes in the current directory

Git commit: -

git commit saves the current staged changes and saves it on the local repository

git commit -m “something you changed”

git basically then saves the changes you staged with git add followed by a messaged explaining what you did. This creates a new entry in the project’s history

git push: -

git push sends the local commits to a remote repository like GitHub, this will then make your local commits visible to other developers working on the same repository by updating the remote copy of the project

“git push origin main”

Differences

|  |  |  |  |
| --- | --- | --- | --- |
| Command | Purpose | Where it effects | When to use |
| git add | State changes | Staging area | When you have made changes and are ready to commit |
| git commit | Record a snapshot of changes | |  | | --- | | Local Repository |  |  | | --- | |  | | After staging changes and writing a message |
| git push | Share changes with others | Remote repository | After committing and ready to share |