

1. Concepts of Git explaining various terms.

- Repository: A container for a project, including all its files, revision history, and configuration.
- Commit: A snapshot of all changes made to the files in a repository.
- Branch: A separate line of development, allowing changes to be made without affecting the main codebase.
- Merge: Combining changes from different branches into a single branch.
- Pull Request: A proposed change submitted for review and merging into the main branch.
- Fork: Creating a personal copy of someone else's repository.
- Clone: Copying a repository from a remote source to a local machine.
- Push: Sending committed changes from a local repository to a remote repository.
- Pull: Fetching changes from a remote repository to a local one.
- Conflict: A situation where changes cannot be merged automatically.

2. Basic Commands of Git.

- git init: Initializes a new Git repository.
- git status: Shows the status of changes as untracked, modified or staged.
- git log: Displays a log of commits.
- git branch: Lists all branches in the repository.
- git pull origin <branch_name>: Fetches and merges changes from a remote repository.
- git push origin <branch_name>: Pushes changes to a remote repository.

3. Concepts on GitHub, GitLab, and Bitbucket:

- GitHub: A web-based platform for hosting and collaborating on Git repositories.
- GitLab: A we-based Git repository manager providing source code management.
- Bitbucket: A git repository hosting service that supports both Git and Mercurial.

4. Industrial Practices of Using Git:

- Collaboration: Multiple developers working on separate branches, using pull requests for code review.
- Continuous Integration: Automated testing and integration to ensure code stability.
- Versioning: Efficient management of software versions.

5. Cloning a Repo to Local:

- git clone <repository_URL>: Copies a remote repository to the local machine.

6. Resources:

- Official Git Documentation
- GitHub Guides
- GitLab Documentation
- Bitbucket Documentation