

Assignment 1.

1. what is Git.

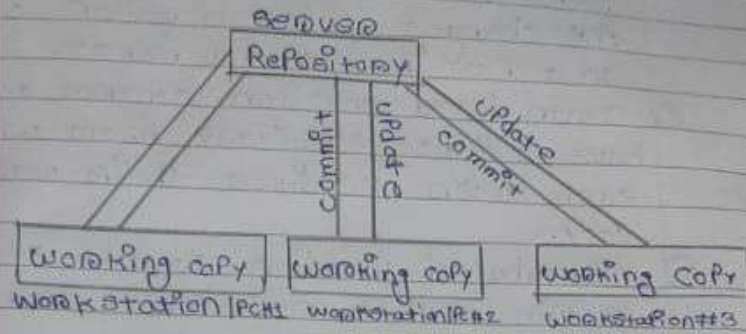
⇒ Git is a version control system for tracking changes in computer files and is used to help co-ordinate work among several people on a project while tracking progress over time. In other words, it's a tool that facilitates source code management in software development. Git favours both programmers and non-technical users by keeping track of their project files. It enables multiple users to work together and handles large projects efficiently.

2. what do you understand by the term 'version control system'?

⇒ In order to invoke a special version later, if necessary, a version control system (VCS) keeps track of all the changes made to a file or group of data.

This makes sure that everyone in the team is using the most recent version of the file.

Centralized version control system



3. What is GitHub?

⇒ GitHub uses Git to offer internet hosting for version control and software development.

4. Mention some popular Git hosting services

⇒ ① GitHub

② SourceForge

③ GitLab

④ Bitbucket

5. Different types of version control systems.

- ⇒ ① Local version control system have a database that stores all file changes under revision control on a disc in a special format.
- ② Centralised version control systems have a single repository from which each user receives their working copy.
- ③ Distributed version control systems contain multiple repositories, and different users can access each one with their working copy.

6. What benefits come with using GIT?

- ⇒ ① Data replication and redundancy are both possible.
- ② It is a service with high availability.
- ③ There can only be one Git directory per repository.
- ④ Excellent network and disk performance are achieved.
- ⑤ On any project, collaboration is very simple.

7. What is Git repository

=> The term "Git repository" describes the location where all Git files are kept. Either the local repository or the remote repository may be used to store these files.

8. How can you initialize a repository in Git?

=> The `git init` command is used to initialise an empty repository to a directory in Git. Following this command a hidden `git` folder will become visible.