

### Assignment (Day 3)

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Q1) What is Git?

Ans) Git is a popular version control system(VCS), It was created by Linus Torvalds in 2005 and has been maintained by Junio Hamano.

Q2) What do you understand by the term 'Version Control System'?

Ans) It is a system that records changes to a file or set of files over time, so that we can recall specific versions later, i.e., for every source code changes in a file a new version will be created.

There are two types of Version Control System:-

1. Centralized Version Control System (CVCS)
2. Distributed Version Control System (DVCS)

Q3) What is Github?

Ans) Github is a Repository which is used to maintain the source code of the project.

Q4) Mention some popular Git hosting services.

Ans) GitHub, Bitbucket, GitLab.

Q5) Different types of Version Control Systems.

Ans) There are two types of Version Control System:-

1. Centralized Version Control System (CVCS)
2. Distributed Version Control System (DVCS)

Q6) What benefits come with using Git?

Ans) Some benefits are:-

- a. It is used for Tracking code changes
- b. It is used for Tracking who made changes like history of the files
- c. It is used for Coding Collaborations

Q7) What is a Git Repository?

Ans) A Git repository tracks and saves the history of all changes made to the files in a Git project.

Q8) How can you Initialize a repository in Git?

Ans) By using git init command.