

## 1.What is Git?

**Ans:** Git is a mature, actively maintained open source project originally developed in 2005 by Linus Torvalds, The famous creates of Linux operating system Kernel.

## 2.What do you understand by the term 'Version Control System'?

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

## 3. What is GitHub?

**Ans:** GitHub is a for-profit company that offers a cloud based Git repository hosting services.

## 4. Mention some popular Git hosting services.

**Ans:**Bitbucket,GitLab,Perforce,BeanStalk, AWS,CodeBase etc.

## 5. Different types of version control system.

**Ans:** There are 3 types of version control system.

1. Local Version Control System.(LVCS)
2. Centralised Version control System.(CVCS)
3. Distributed Version Control System.(DVCS)

## 6. What benefits come with using GIT?

**Ans:** One of the biggest advantages of Git is its branching capability. Unlike CVCS, Git branches are cheap and easy to merge. This facilitates the feature branche workflow popular with many Git users. Feature branch provide an isolated environment for every changes to your codebase.

## 7. 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.

## 8. How can you initialise a repository in Git?

**Ans:**

1. Create a new repository in [GitHub.com](https://github.com)
2. Open Terminal TerminalGit Bash.
3. Change the current working directory to your local project.
4. Use the init command to initialise the local directory as a Git repository.
5. Add the files in your new local repository.
6. Commit the file that you have staged in your local repository.