1)What is Git ?

**Ans:- Git is a popular version control system, it was created by Linus Torvalds in 2005 and has been maintained by Junio Hamano.**

2) 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.**

3) What is Github?

**Ans:- Github is a git server and it is the largest host of source code in the world and it is used to store and maintain the source code of the project.**

4) Mention some popular Git hosting service?

**Ans:- Some of the git Hosting Service Github, Gitlab, BitBucket, Gitblit.**

5) Different types of version control system?

**Ans:- a) Centralized version control system**

**b) Distributed version control system**

6) What benefits come with using GIT?

**Ans:- a) developers don’t check out the latest snapshot of the files rather they fully mirror the repository including its full history.**

**b) if the main server dies, then local system will maintain a copy of the main repository which has full backup of data.**

**c) if the remote repository is down, then the developer can make changes in the local repository and when the main repository is up the code can be pushed to remote repository from local repository.**

7) What is a Git repository?

**Ans:- Repositories in GIT contain a collection of files of various different versions of project. These files are imported from the repository into the local sever of the user for further updations and modifications in the content of the file.**

8) How can you initialize a repository in Git?

**Ans:- git init is a one time command use during the initial setup of a new repository. Executing this command will create a new .git subdirectory in your current working directory. This will also create a new main branch.**