1.What is Git ?

Git is a [free and open source](https://git-scm.com/about/free-and-open-source) distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

2.What is the difference between Git and svn ?

svn is a Centralized Revision Control System, and git is a Distributed Revision Control System (DVCS).

3.Write a command to commit your work in Git?

git commit –m” first commit”.

4.What are the advantages of using Git?

Fast: Git is very fast, even when compared to other DVCS, for local as well as network operations.

Distributed model: This means your work is your own. You can let others see only what is necessary. Not everything has to be public.

Data integrity is assured: Because git uses SHA1 trees, data corruption due to external reasons can be easily detected.

5.What is a git clone?

The **git clone** command copies an existing **Git** repository. This is sort of like SVN checkout, except the “working copy” is a full-fledged **Git** repository—it has its own history, manages its own files, and is a completely isolated environment from the original repository.

6.What is command to delete branch?

To delete a local branch

git branch -d the\_local\_branch

git push origin :the\_remote\_branch

git push origin --delete the\_remote\_branch

7.Explain the architecture of Git in your own words ?

File is sent from local PC to remote where it is converted to clone then goes to working copy then travels to work stage then back to local again. The procedure is as follows:

Clone

Remote

Local

8.how to resolve conflicts in Git?

. It opens a GUI that steps you through each conflict, and you get to choose how to merge. Sometimes it requires a bit of hand editing afterwards, but usually it's enough by itself. It is much better than doing the whole thing by hand certainly.

9.Name the Different vendors that are working on VCS?

 . 1) Git hub

2) SVN