**Lab No. 1**

**Q1.** What is GIT?

**Ans.** Git is a kind of open source software where we can share files publicly and even privately as per our requirements.

**Q2.** What is the difference between GIT and SVN?

**Ans.** SVN is centralized revision control system whereas GIT is distributed revision control system , but since GIT works much faster so it is much better than SVN.

**Q3.** Write a command to commit your work in GIT?

**Ans.** git commit –m” first commit”.

**Q4.** Create a repository with your name with unique roll number in GitHub?

**Ans.** git remote add origin <https://github.com/faizan140/oop.git>

**Q5.** What are the advantages of using Git?

**Ans.** Since it is distributed system so it has got many branches to facilitate the users.

**Q6.** What is a GIT clone?

**Ans.** It is actually a copy of a GIT repository which can be used on multiple branches.

**Q7.** What is the command to delete branch?

**Ans.** To delete a local branch

git branch –d the\_local\_branch

To remove a remote branch

git push origin : the \_remote\_branch

**Q8.** Explain the architecture of Git in your own words?

**Ans.** 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

**Working Copy**

**Working Stage**

**Local Pc**

**Q9.** How to resolve conflicts in Git ?

Ans. 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.

**Q10.** Name the different vendors that are working on VCS.

Ans. 1) Git hub

2) SVN