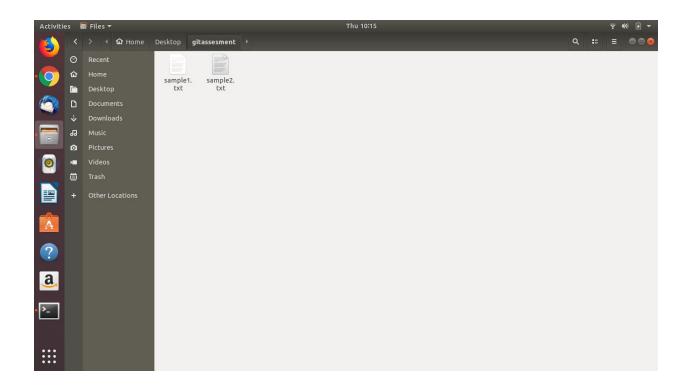
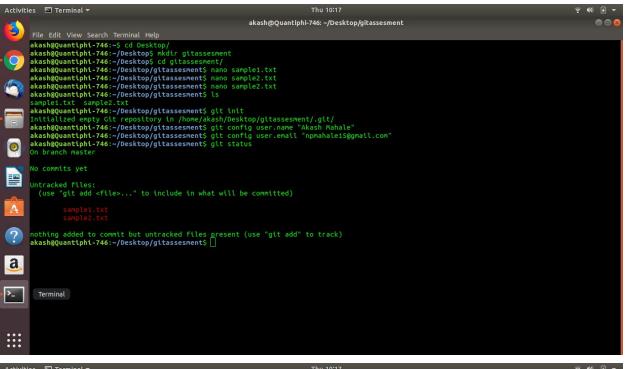
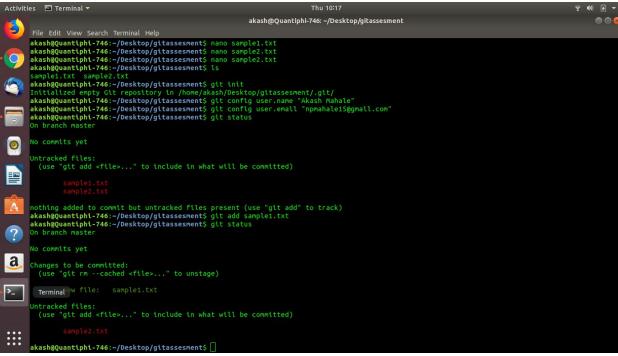
## **GIT Assessment**

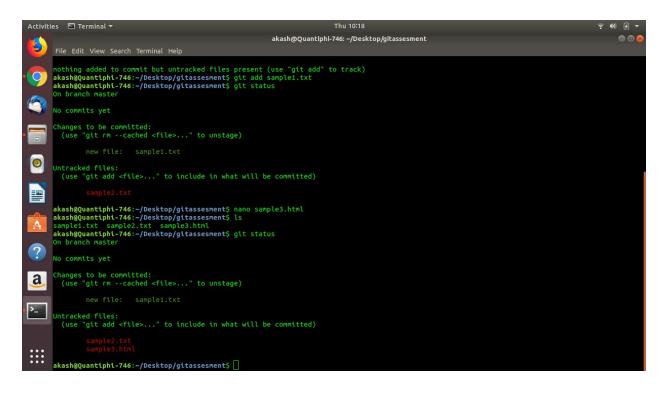
Distributed version control system(DVCS)

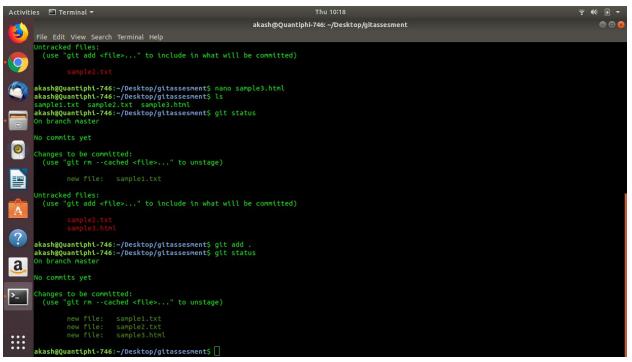
1) Create a Distributed version control system, and put files into it.



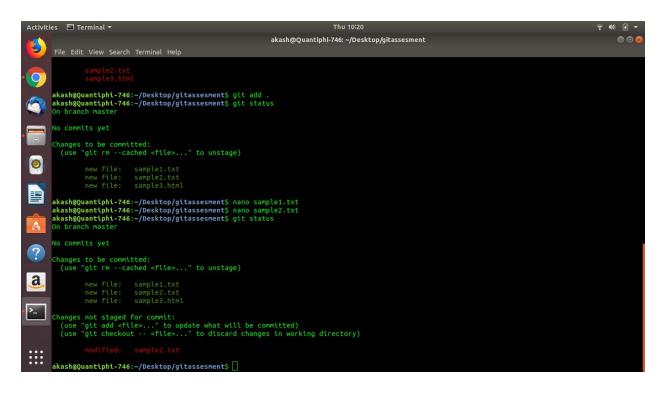


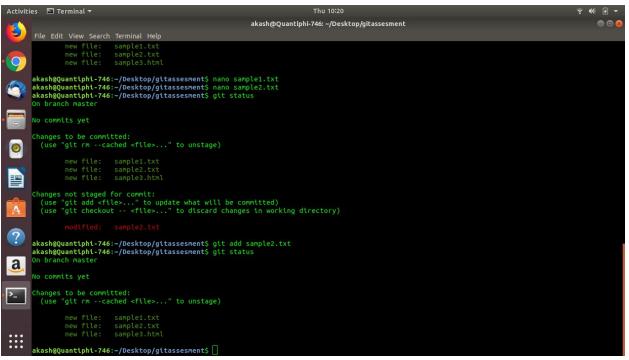


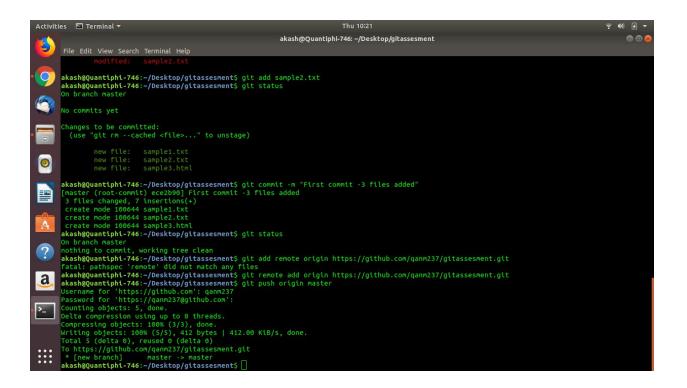




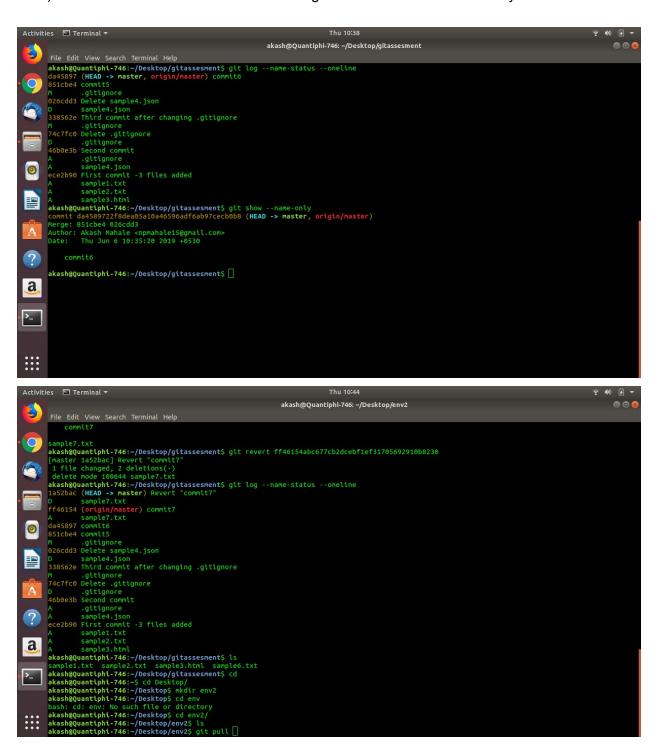
2) Replicate a DVCS on your local machine, make changes to its files, and then put them back into it.



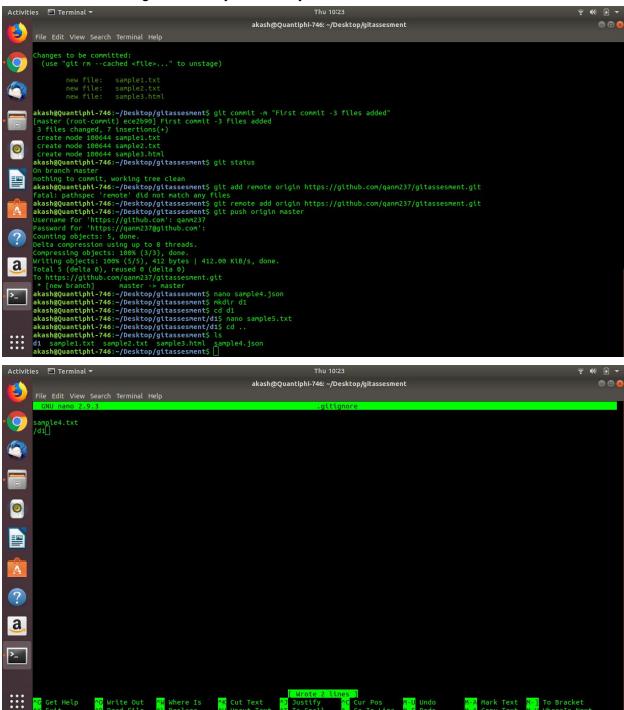


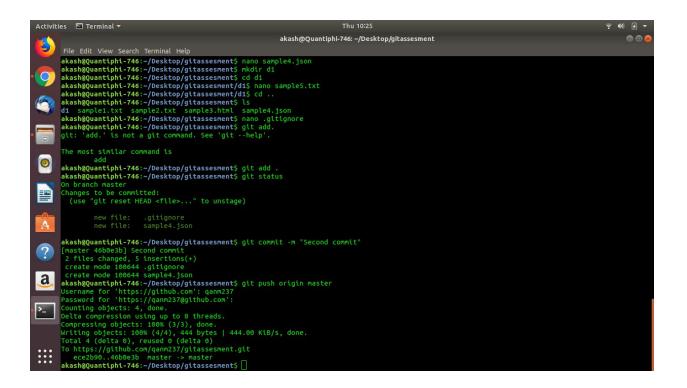


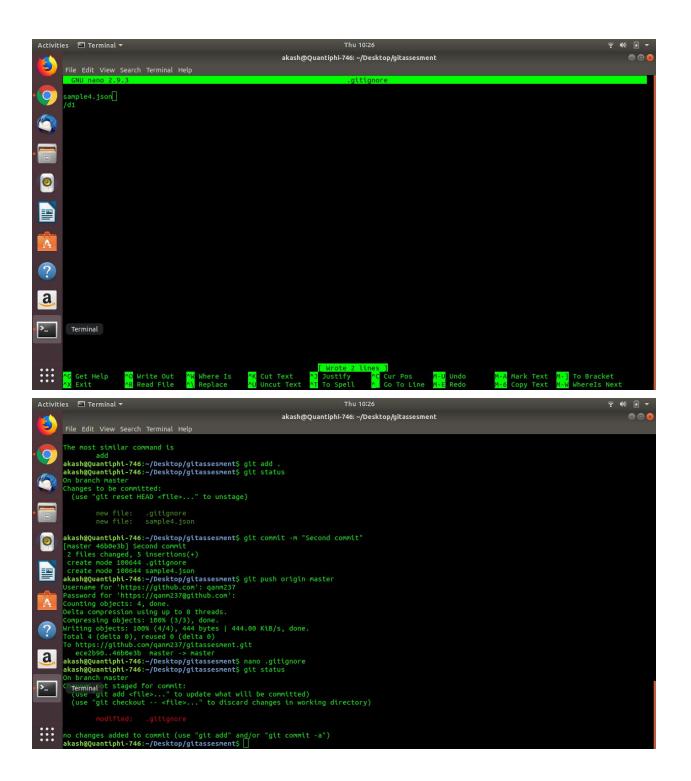
3) List down all the files which have changed in the last commit. List only the file names.

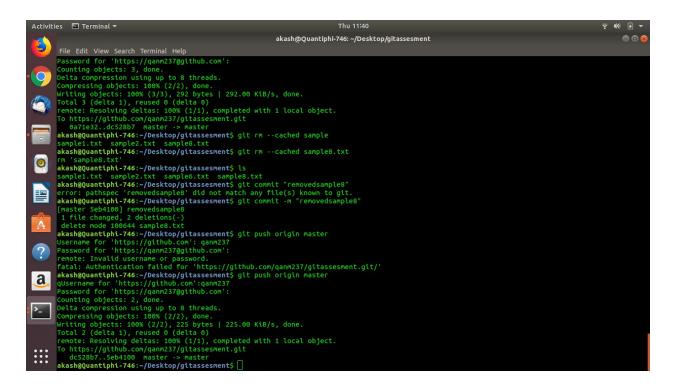


4) You've accidentally added some files on a DVCS. Remove those files from the DVCS without deleting them from your local system.

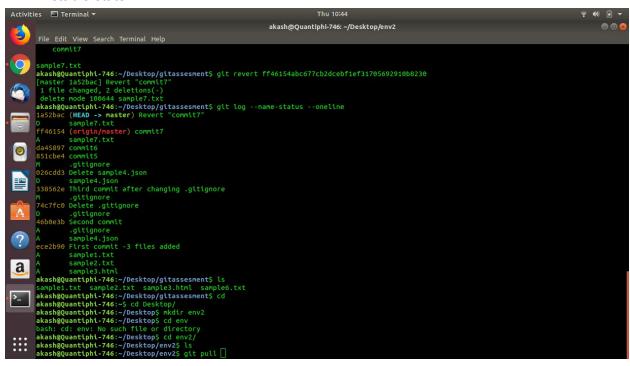




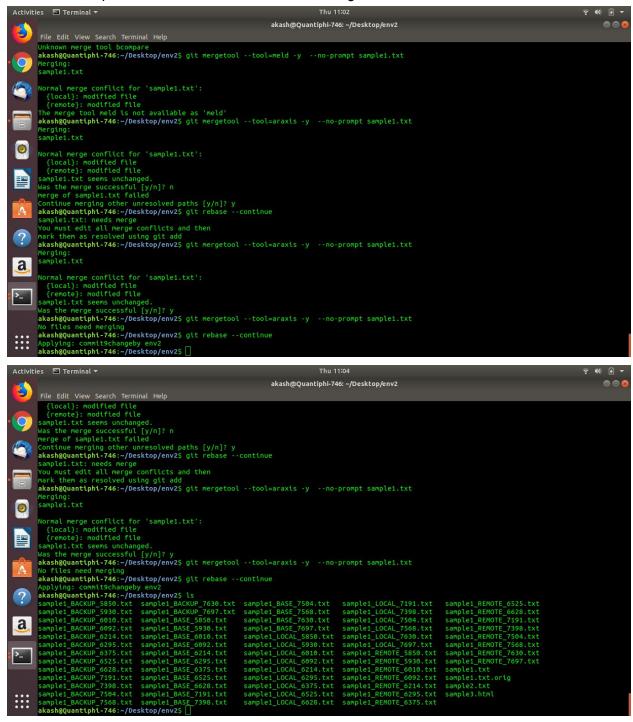




5) You've accidentally committed some files on a DVCS. Revert the DVCS to a previous stable state.



6) Create a DVCS capable of supporting 2 similar dev environments. Make changes in the files which are present on both of them and then merge the environments into one.



7) You have a DVCS supporting your prod, test and dev environments, you need to make sure that only a particular set of commits from the test environment are added in the prod environment. What & how would you do it?

I have assumed master branch as the prod env and have created a test1 and dev1(branches) env as testing and development environment. A file is being added from the test1 environment, committed. We change it to the master branch and cherry-pick the commit on the from test1 environment. It gets committed to the master branch and thus highlighted on the production environment. Similarly it is done using dev1 env. The hash of the commit is required for cherry-pick. Multiple changes and the corresponding changes were done for to the file in test1 and dev1 branches, however, the commit we were interested was selected from the git log and its hash was noted and the git cherry-pick <hash> was done and the desired changed file was highlighted on the prod env.

