• To create a Distributed version control system, and put the files into it.

### # Creating Folder

mkdir Git\_Assessment cd Git\_Assessment/

### # Initializing Readme and some test files

echo "# Git Assessment Quantiphi Training" >> README.md git init cat > test1.txt Hi, this is test 1! cat > test2.txt Hello, this is test 1!

## # Adding, checking status and committing with commit message

git add . git status

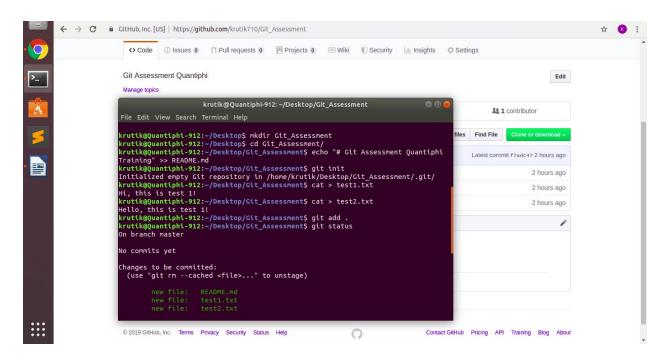
git commit -m "added readme, test1, test2"

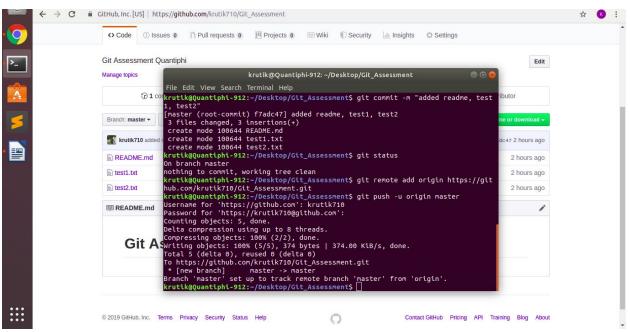
## # Adding the origin of the repo to the local machine

git remote add origin <a href="https://github.com/krutik710/Git">https://github.com/krutik710/Git</a> Assessment.git

### # Pushing files to the master branch of repo

git push -u origin master





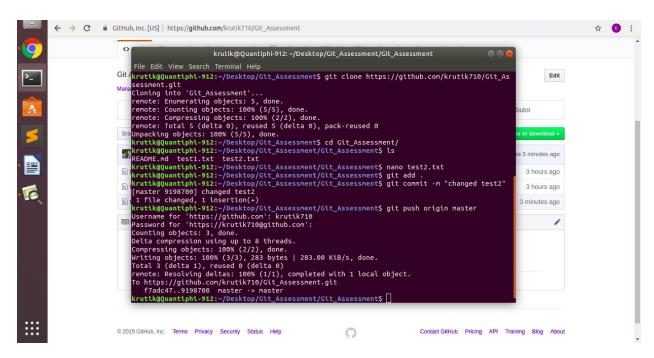
• Replicate a DVCS on your local machine, make changes to its files, and then put them back into it.

### # To replicate the repo

git clone https://github.com/krutik710/Git Assessment.git

#### # Change files, add, commit and push

nano test2.txt git add test2.txt git commit -m "changed test2" git push origin master

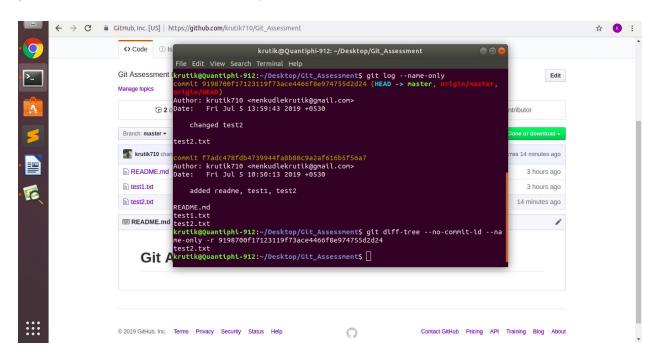


• List down all the files which have changed in the last commit. List only the file names.

# # Getting names of all logs of the commit in repogit log --name-only

### # Retrieving only the latest files changed

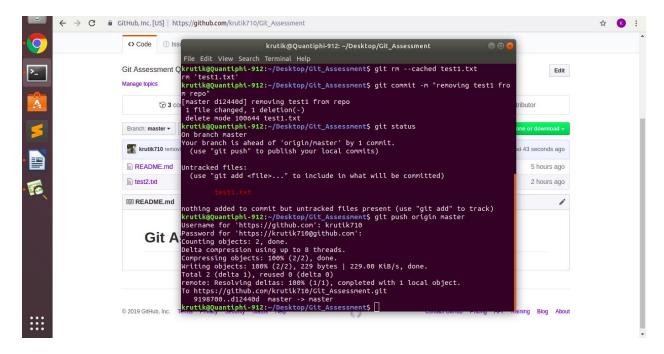
git diff-tree --no-commit-id --name-only -r 9198700f17123119f73ace4466f8e974755d2d24



 Remove some files from the DVCS without deleting them from your local system.

### # Removing file only from git repo

git rm --cached test1.txt git commit -m "removing test1 from repo" git push origin master



# Reverting DVCS to a previous stable state

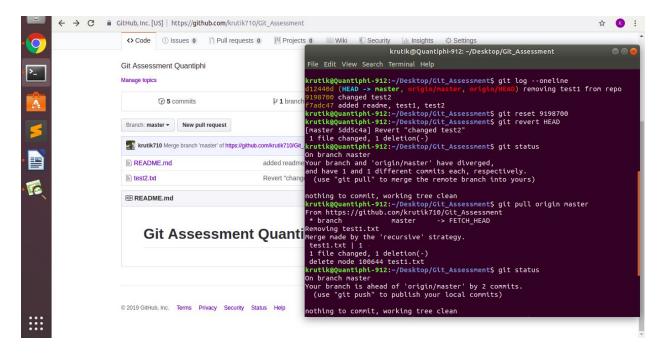
# Reverting to the previous state (second commit, changing content in test2.txt)
# Getting log of previous commit with simplified format
git log --oneline

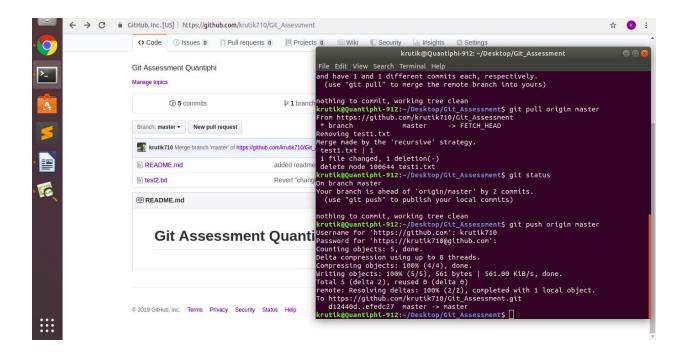
# # Reset to previous state using commit key git reset 9198700

# # Reverting Head to that commit git revert HEAD

# # Pulling previous commit to working git pull origin master

# # Pushing the updated reverted to master git push origin master





# Make two branches, change files present in both and merge both branches

#### # Make and checkout to another branch

git checkout -b test\_branch

### # Pushing existing codebase to new branch

git push origin test\_branch

### # Making changes and add, commit, push to new branch

nano test2.txt git add test2.txt git commit -m "adding content in test2" git push -u origin test\_branch

#### # Check Out to master branch

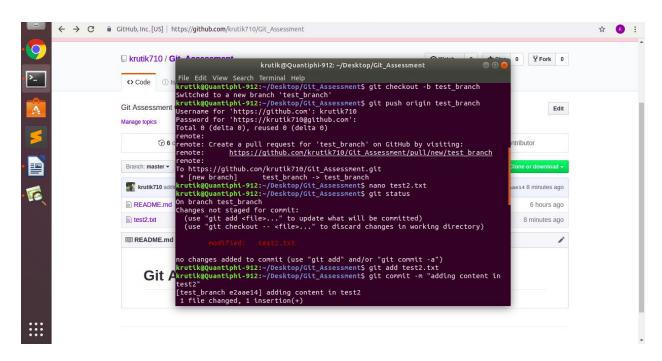
git checkout master

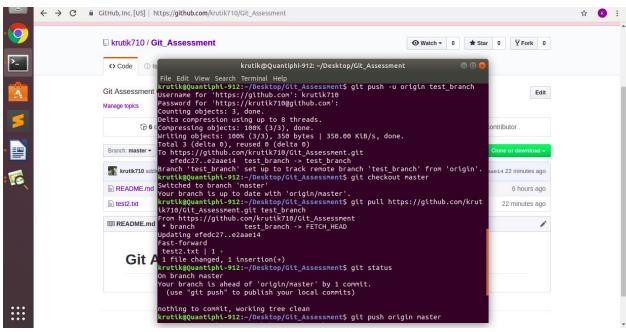
### # Merge both branches

git pull https://github.com/krutik710/Git\_Assessment.git test\_branch

#### # Push the commit to master branch

git push origin master





 Make sure that only a particular set of commits from the test environment are added in the prod environment.

# After making necessary changes in other branch, take the commit key from log of that branch

git log --oneline

#### # Check out to master

git checkout master

# Cherry-pick helps to move to a specific commit of some other branch git cherry-pick 8b2bffa

### # Reset, Add, Commit And Push changes

git reset git add -p git commit -m "Intial Commit From Test" git push origin master

