Question 1:

```
# Creating Folder
cd Desktop/
mkdir Git_Assessment
cd Git_Assessment/

# Initializing Readme and some test files
echo "This is a Git Assessment Repository" >> README.md
git init
cat > file1.txt
This is the first file
cat > test2.txt
This is the second file

# Adding and committing with commit message
git add .
git commit -m "Initial commit"

# Adding the origin of the repo to the local machine
git remote add origin https://github.com/ketavbhatt/GitAssessment.git

# Pushing files to the master branch of repo
git push -u origin master
```
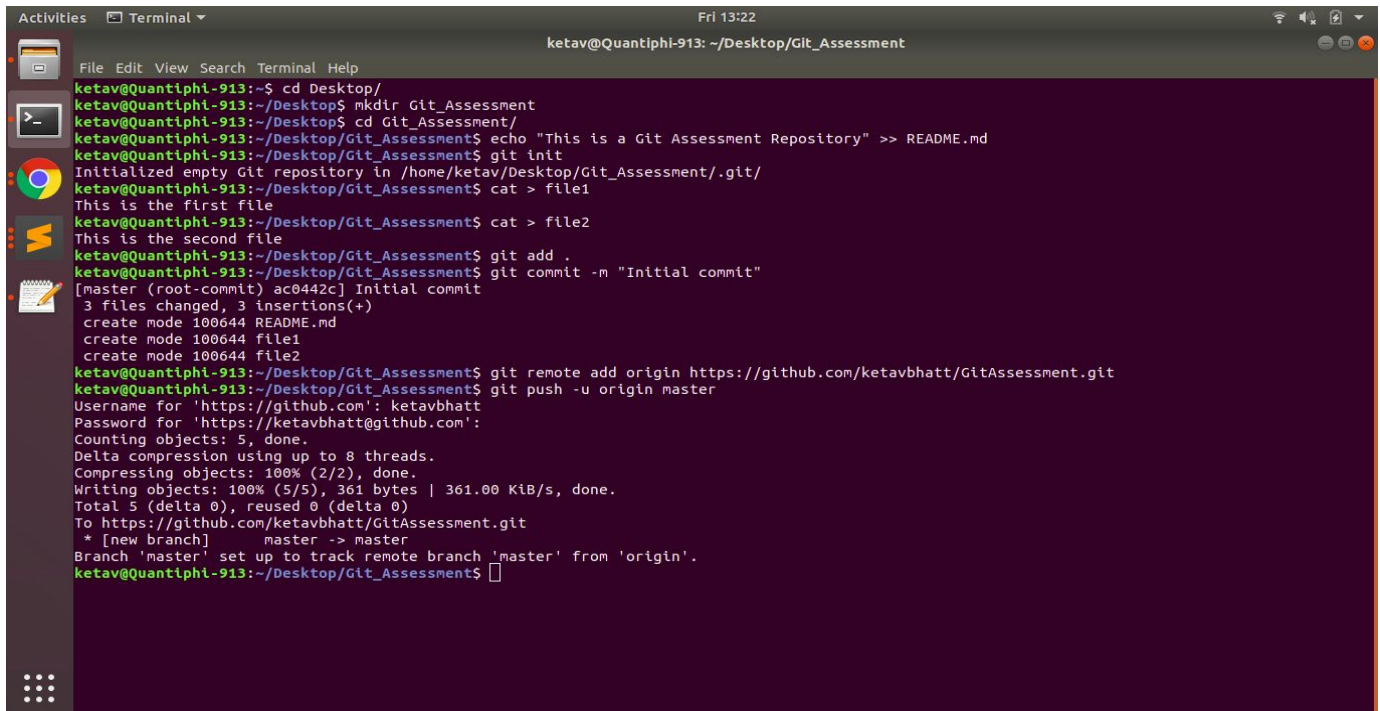
Question 2

# Cloning the Repository
$ git clone https://github.com/ketavbhatt/GitAssessment.git

# Editing the file
$ cd GitAssessment/
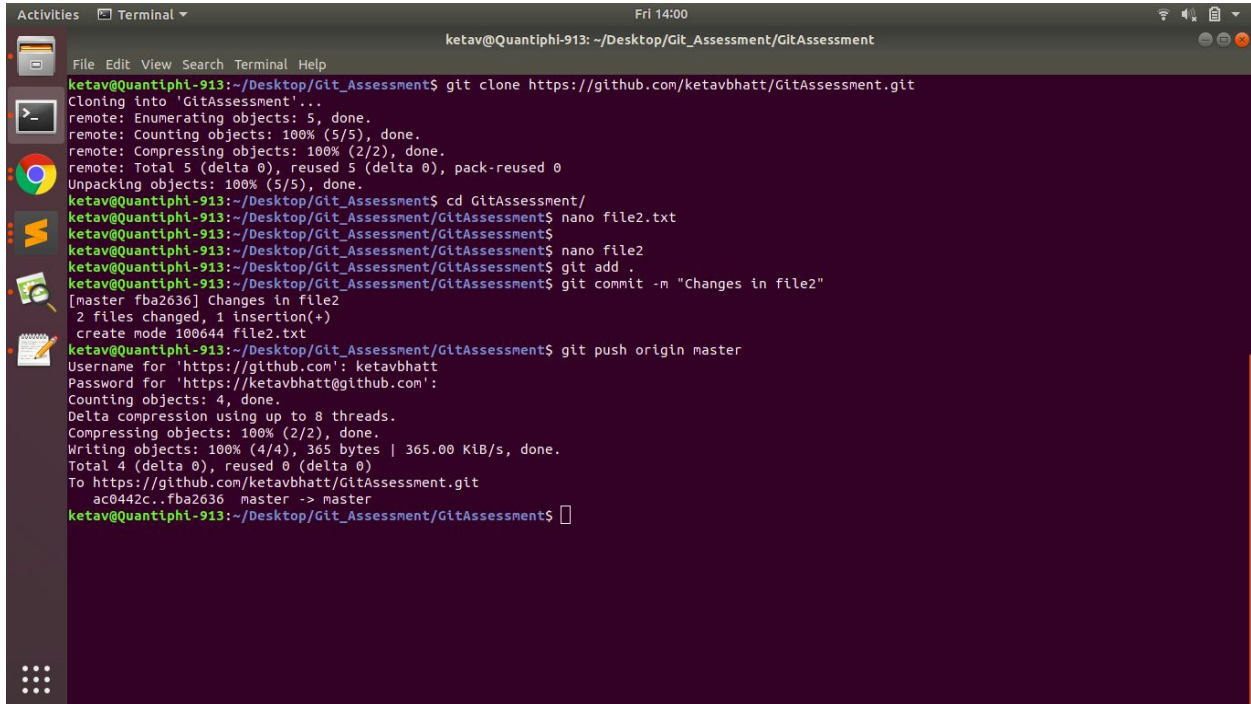$ nano file2

# Adding and committing the changes and pushing on the master branch
$ git add .
$ git commit -m "Changes in file2"
$ git push origin master

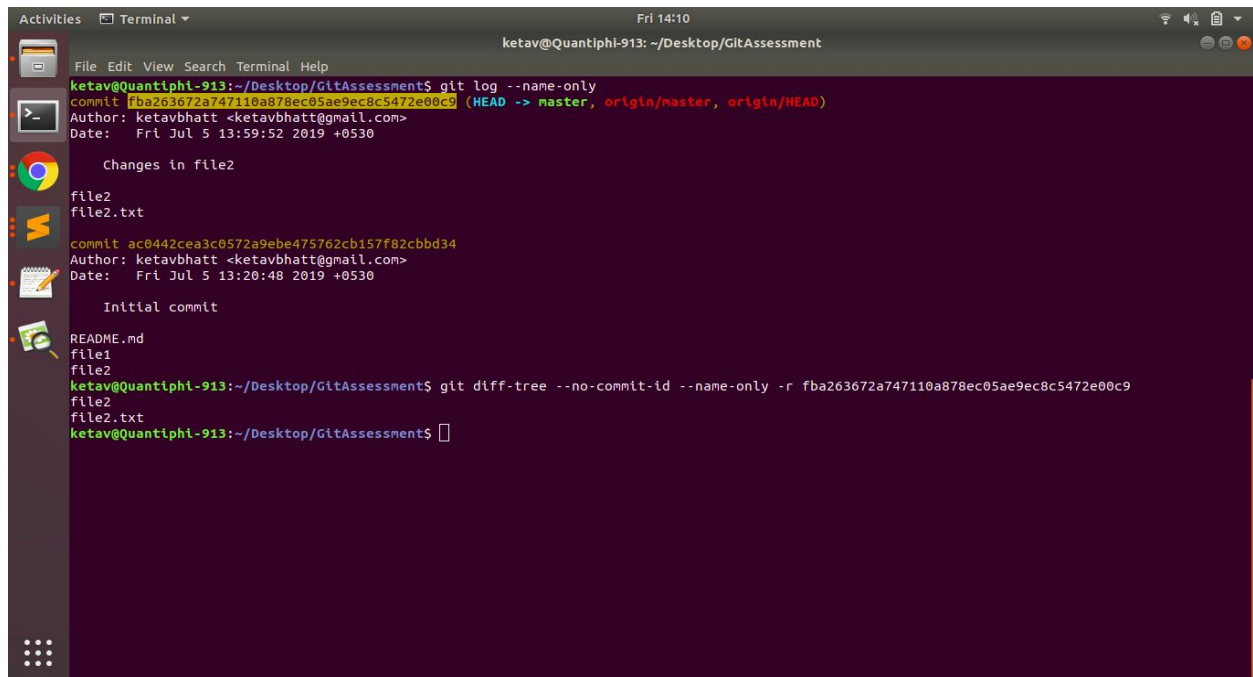**Question 3**

# Finding name of the last commit
$ git log --name-only

# Finding the files changed in last commit
$ git diff-tree --no-commit-id --name-only -r fba263672a747110a878ec05ae9ec8c5472e00c9

Question 4

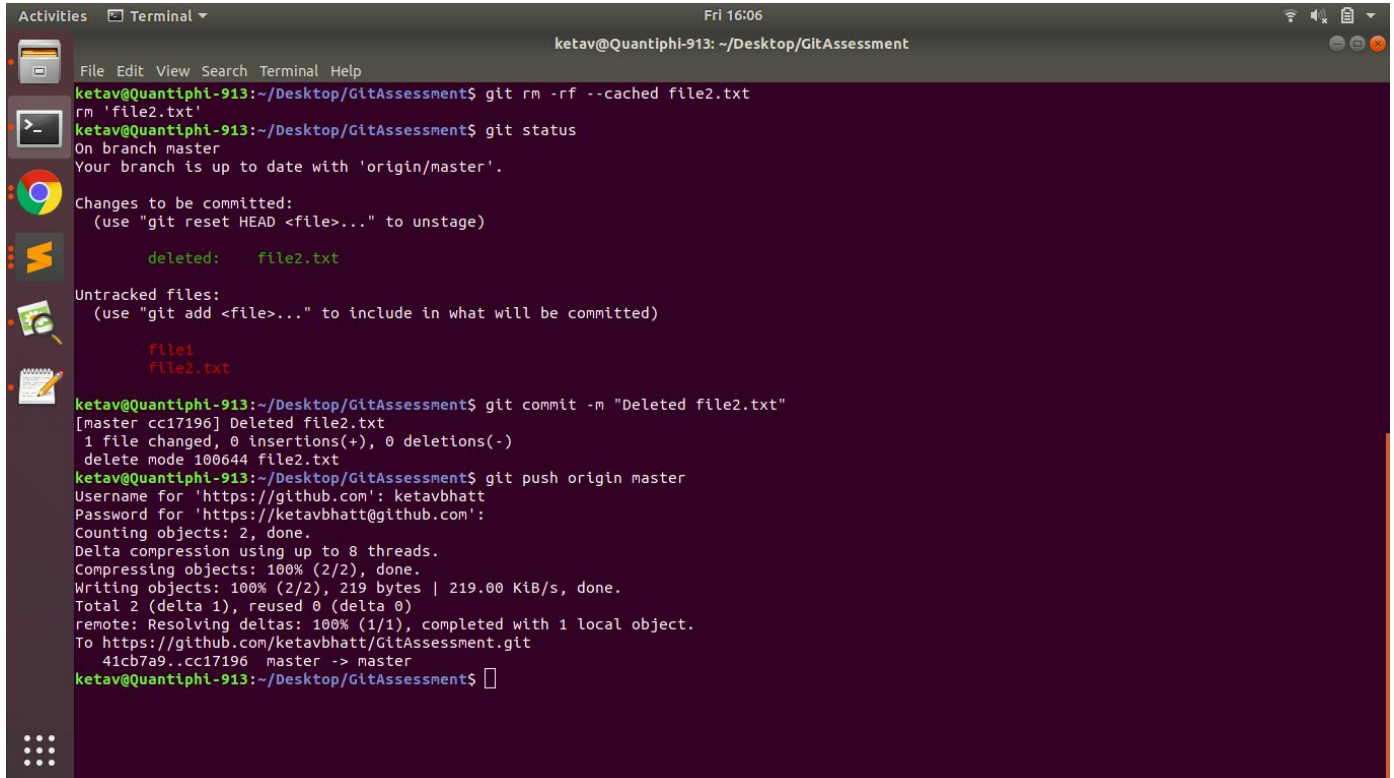# Remove file from git
$ git rm -rf --cached file2.txt

# Committing and pushing the rest of the files
$ git commit -m "Deleted file2.txt"
$ git push origin master

Question 5

# Checking the log and resetting to previous stage
$ git log --oneline
$ git reset 7689558

# Reverting the HEAD
$ git revert HEAD

$ git pull origin master

$ git push origin master

Question 6

# Making new branch
$ git branch test

# Switching HEAD to test branch
$ git checkout test

# Adding committing and pushing the changes on test branch
$ git add .
$ git commit -m "file2 changes in test branch"
$ git push origin test

# Switching HEAD back to master branch
$ git checkout master
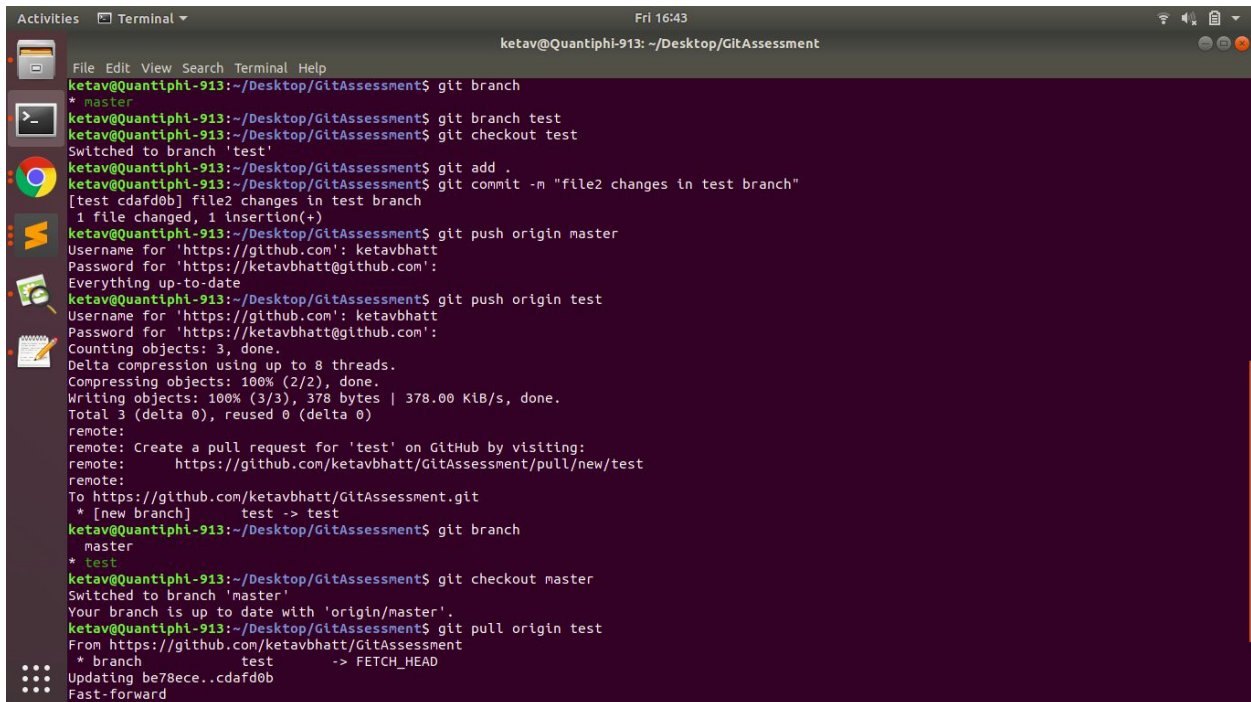
# Pull the code from test branch
$ git pull origin test

# Remove the conflicts if any and push back on master branch
$ git push origin master

Question 7

# Checkout the test branch
$ git checkout test

# Add, commit and push first changes in test branch
$ git add .
$ git commit -m "first change in test branch"
$ git push origin test

# Add commit and push second changes on test branch
$ git add .
$ git commit -m "second change in test branch"
$ git push origin test

# Check the commit-ids of first and second changes on test branch
$ git log --oneline

# Switch to master branch
$ git checkout master

# Pick the commit id you want to add from test branch to master branch
$ git cherry-pick 1a89192
$ git reset

# Add commit and push changes to master branch
$ git add -p
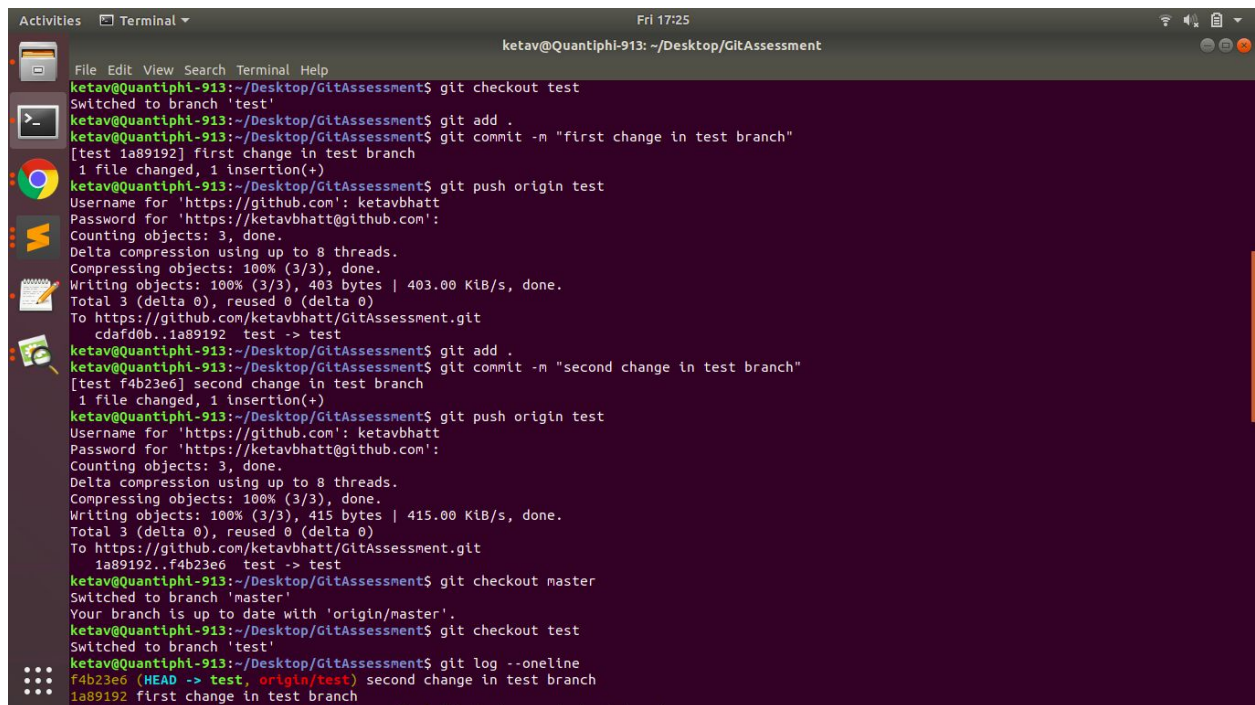$ git commit -m "first change from test branch"
$ git push origin master

ketav@Quantiphi-913: ~/Desktop/GitAssessment

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```
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git log --oneline
f4b23e6 (HEAD -> test, origin/test) second change in test branch
1a89192 first change in test branch
cdafd0b (origin/master, origin/HEAD, master) file2 changes in test branch
be78ece Merge branch 'master' of https://github.com/ketavbhatt/GitAssessment Reverting to file2 updated stage
3234ed4 Revert "File2 updated"
c772ea0 Merge branch 'master' of https://github.com/ketavbhatt/GitAssessment asd
7689558 File2 updated
29360e5 File2 updated
fba2636 Changes in file2
ac0442c Initial commit
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git cherry-pick 1a89192
[master 46ea028] first change in test branch
 Date: Fri Jul 5 17:13:39 2019 +0530
 1 file changed, 1 insertion(+)
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git reset
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git add -p
No changes.
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git commit -m "first change from test branch"
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git commit
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git add .
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git commit -m "first change from test branch"
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
```

ketav@Quantiphi-913: ~/Desktop/GitAssessment

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```
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git add .
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git commit -m "first change from test branch"
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git cherry-pick -n 1a89192
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git reset
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git add -p
No changes.
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git commit -m "first change from test branch"
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ketav@Quantiphi-913:~/Desktop/GitAssessment$ git push origin master
Username for 'https://github.com': ketavbhatt
Password for 'https://ketavbhatt@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 408 bytes | 408.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ketavbhatt/GitAssessment.git
   cdafd0b..46ea028  master -> master
ketav@Quantiphi-913:~/Desktop/GitAssessment$ ▯
```