

g-5 Commit the file

```
siddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git commit -m "files add"
[master (root-commit) 9b6d4da] files add
  1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 file.txt
siddharth@siddharth:~/git_repos$ git status
On branch master
nothing to commit, working tree clean
siddharth@siddharth:~/git_repos$
```

q-6 Add a remote (remote add ho rahi hai local par)

```
siddharth@siddharth:~/git_repos$ git remote add origin https://github.com/siddha
rthbhatia96ttn/assignment2.git
fatal: remote origin already exists.
siddharth@siddharth:~/git_repos$ git remote -v
origin https://github.com/siddharthbhatia96ttn/assignment2.git (fetch)
origin https://github.com/siddharthbhatia96ttn/assignment2.git (push)
siddharth@siddharth:~/git_repos$
```

q-7 Undo changes to a particular file

```
siddharth@siddharth:~/git_repos$ touch file5.txt
siddharth@siddharth:~/git_repos$ cat >file5.txt
Hello Welcome
siddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git commit -m "saving"
[master b865e45] saving
2 files changed, 1 insertion(+)
rename file3.txt => file2.txt (100%)
create mode 100644 file5.txt
siddharth@siddharth:~/git_repos$ git status
On branch master
nothing to commit, working tree clean
siddharth@siddharth:~/git_repos$ cat >>file5.txt
Siddharth
^Z
[3]+ Stopped
                              cat >> file5.txt
```

```
[3]+ Stopped
                              cat >> file5.txt
siddharth@siddharth:~/git_repos$ git commit -m "saving"
On branch master
Changes not staged for commit:
no changes added to commit
siddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git commit -m "saving"
[master 638d810] saving
 1 file changed, 1 insertion(+)
siddharth@siddharth:~/git_repos$ git log
                                          f28d54 (HEAD -> master)
Author: siddharthbhatia96ttn <siddharth.bhatia@tothenew.com>
Date:
        Thu Feb 6 14:36:40 2020 +0530
    saving
commit b865e45184a6776bc1459120e37bcbdd6ca7cb3d
Author: siddharthbhatia96ttn <siddharth.bhatia@tothenew.com>
```

```
Date:
       Thu Feb 6 14:35:09 2020 +0530
   saving
commit 823833f4ca3dfddd797264c75c35b7ae522933c7
Author: siddharthbhatia96ttn <siddharth.bhatia@tothenew.com>
        Thu Feb 6 14:15:34 2020 +0530
Date:
    file save
commit 3c64dec36f3ab3102bfe405cec6e59e743bd362b
Author: siddharthbhatia96ttn <siddharth.bhatia@tothenew.com>
Date:
       Thu Feb 6 13:35:24 2020 +0530
    file add
siddharth@siddharth:~/git_repos$ git revert 638d8102879708d73bc4101dd7d83be959f2
8d54
[master 27436bf] Revert "saving"
1 file changed, 1 deletion(-)
siddharth@siddharth:~/git_repos$ cat file5.txt
Hello Welcome
siddharth@siddharth:~/git repos$
```

q-8 Push changes to Github

```
siddharth@siddharth:~/git_repos$ git push origin master -f
Username for 'https://github.com': siddharthbhatia96ttn
Password for 'https://siddharthbhatia96ttn@github.com':
Counting objects: 29, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (20/20), done.
Writing objects: 100% (29/29), 2.34 KiB | 799.00 KiB/s, done.
Total 29 (delta 6), reused 0 (delta 0)
remote: Resolving deltas: 100% (6/6), done.
To https://github.com/siddharthbhatia96ttn/assignment2.git
+ c088734...b613642 master -> master (forced update)
siddharth@siddharth:~/git_repos$
```

q-9 Clone the repository

```
siddharth@siddharth:~/git_repos$ git clone https://github.com/siddharthbhatia96t
tn/assignment2.git
Cloning into 'assignment2'...
remote: Enumerating objects: 29, done.
remote: Counting objects: 100% (29/29), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 29 (delta 6), reused 29 (delta 6), pack-reused 0
Unpacking objects: 100% (29/29), done.
siddharth@siddharth:~/git_repos$
```

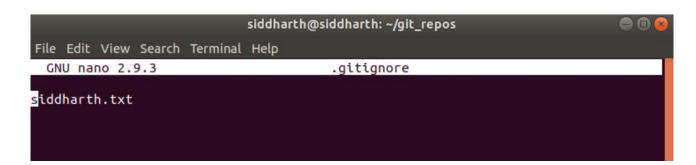
q-10 Add changes to one of the copies and pull the changes in the other

```
siddharth@siddharth:~/git repos$ ls -l
otal 16
drwxr-xr-x 3 siddharth siddharth 4096 Feb 6 15:53 assignment2
rw-r--r-- 1 siddharth siddharth 15 Feb 6 14:48 file22.txt
rw-r--r-- 1 siddharth siddharth 13 Feb 6 14:21 file2.txt
rw-r--r-- 1 siddharth siddharth 14 Feb 6 14:37 file5.txt
rw-r--r-- 1 siddharth siddharth 0 Feb 5 15:38 file.txt
rw-r--r-- 1 siddharth siddharth 0 Feb 5 21:46 xyz.txt
iddharth@siddharth:~/git_repos$ git pull origin master
emote: Enumerating objects: 4, done.
emote: Counting objects: 100% (4/4), done.
emote: Compressing objects: 100% (2/2), done.
emote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Jnpacking objects: 100% (3/3), done.
rom https://github.com/siddharthbhatia96ttn/assignment2
* branch
                     master
                                -> FETCH HEAD
                                 -> origin/master
  b613642..689bbb0 master
Jpdating b613642..689bbb0
ast-forward
apq.txt | 1 +
```

```
1 file changed, 1 insertion(+)
  create mode 100644 apq.txt
siddharth@siddharth:~/git_repos$ ls -l
total 20
-rw-r--r-- 1 siddharth siddharth 12 Feb 6 16:00 apq.txt
drwxr-xr-x 3 siddharth siddharth 4096 Feb 6 15:53 assignment2
-rw-r--r-- 1 siddharth siddharth 15 Feb 6 14:48 file22.txt
-rw-r--r-- 1 siddharth siddharth 13 Feb 6 14:21 file2.txt
-rw-r--r-- 1 siddharth siddharth 14 Feb 6 14:37 file5.txt
-rw-r--r-- 1 siddharth siddharth 0 Feb 5 15:38 file.txt
-rw-r--r-- 1 siddharth siddharth 0 Feb 5 21:46 xyz.txt
siddharth@siddharth:~/git_repos$
```

α-11 Check differences between a file and its staged version

q12 Ignore a few files to be checked in.



q-13 Create a new branch

q-14 Diverge them with commits

q-15 Edit the same file at the same line on both branches and commit.

```
siddharth@siddharth:~/git_repos$ echo "Hello my friend">>file8.txt
siddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git commit -m "mom"
[master 7528957] mom
2 files changed, 1 insertion(+), 1 deletion(-)
delete mode 100644 456.txt
create mode 100644 file8.txt
siddharth@siddharth:~/git_repos$ git checkout sidbh
Switched to branch 'sidbh'
siddharth@siddharth:~/git_repos$ echo"hello linux">>file8.txt
echohello linux: command not found
siddharth@siddharth:~/git_repos$ echo "hello linux">>file8.txt
siddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git commit -m "branch2"
[sidbh 51a2a49] branch2
1 file changed, 1 insertion(+)
create mode 100644 file8.txt
siddharth@siddharth:~/git_repos$
```

Q16) Try merging and resolve merge conflicts

- When we merged both the branches (using "git merge"); git detected different content in the file at the same line, but in different branches.
- The conflict represented content of both the content in the same file at same line location as :

```
<<<<< HEAD

12345

=====

abcde

>>>>> branch1
```

Keeping the content of either of the branches and performing operations as follows:

q-17 Stash the changes and pop them.

unset color prompt force color prompt

```
siddharth@siddharth:~/git_repos$ touch add.txt
siddharth@siddharth:~/git_repos$ cat >add.txt
Siddharth Hellosiddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git commit -m "again2"
[sidbh 928a785] again2
3 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 add.txt
delete mode 100644 mno.txt
delete mode 100644 nmo.txt
siddharth@siddharth:~/git_repos$ cat >>add.txt
Byesiddharth@siddharth:~/git_repos$ git add .
siddharth@siddharth:~/git_repos$ git stash
Saved working directory and index state WIP on sidbh: 928a785 again2
siddharth@siddharth:~/git_repos$ cat add.txt
Siddharth Hellosiddharth@siddharth:~/git_repos$
q-18 Add the following code to your .bashrc file : color prompt="yes"
parse git branch() {
git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \(.*\)/(\1)/'
if [ "$color prompt" = yes ]; then
PS1='\u@h[\033[00m]:\[\033[01;34m]\] $\(\parse\) git \text{branch}\[\033[00m\]\$'
PS1='\u@\h:\W $(parse git branch)\$'
```

```
siddharth@siddharth: ~/git_repos
                                                                                  File Edit View Search Terminal Help
  GNU nano 2.9.3
                                                                             Modified
                                           .bashrc
color_prompt="yes"
parse_git_branch() {
git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \(.*\)/(\1)/'
if [ "$color_prompt" = yes ]; then
PS1='\u@\h\[\033[00m\]:\[\033[01;34m\]\W\[\033[01;31m\] $(parse_git_branch)\[\0$
else
PS1='\u@\h:\W $(parse_git_branch)\$ '
fi
unset color_prompt force_color_prompt
              ^O Write Out ^W Where Is
                                           ^K Cut Text ^J Justify
^G Get Help
                                                                        ^C Cur Pos
              ^R Read File ^\
                                              Uncut Text<sup>^</sup>T To Spell
   Exit
                               Replace
                                                                           Go To Line
```