

Q5. Difference between --force push and --force-with-lease, You have to show the use of both, also you have to show in what scenario --force-with-lease is used?

>

The git push command is used for pushing the snapshot of the current branch to the remote repository.

The command : `$ git push <name-of-remote> <branch-to-push> --force`

This command will

```
MINGW64/c/Users/Jayant Ghadge/git_test

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ echo this is a new line >>new1.txt

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git add new1.txt
warning: in the working copy of 'new1.txt', LF will be replaced by CRLF the next time Git touches it

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git push origin master --force
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git remote -v
upstream      https://github.com/ghadgejayant12/git_assn2.git (fetch)
upstream      https://github.com/ghadgejayant12/git_assn2.git (push)

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git push upstream master --force
Enumerating objects: 20, done.
Counting objects: 100% (20/20), done.
Delta compression using up to 8 threads
Compressing objects: 100% (16/16), done.
Writing objects: 100% (20/20), 1.87 KiB | 319.00 KiB/s, done.
Total 20 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/ghadgejayant12/git_assn2.git
 * [new branch]      master -> master

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ echo this is another line >>new1.txt

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new1.txt

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   new1.txt
        modified:   newfile.txt

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git add .
warning: in the working copy of 'new1.txt', LF will be replaced by CRLF the next time Git touches it

Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$
```

 MINGW64:/c/Users/Jayant Ghadge/git\_test

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git push upstream master --force
Enumerating objects: 24, done.
Counting objects: 100% (24/24), done.
Delta compression using up to 8 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (24/24), 2.23 KiB | 457.00 KiB/s, done.
Total 24 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/ghadgejayant12/git_assn2.git
+ 82fa17f...a5080a3 master -> master (forced update)
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$
```

MINGW64:/c/Users/Jayant Ghadge/git\_test

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git push upstream master --force-with-lease
To https://github.com/ghadgejayant12/git_assn2.git
! [rejected]      master -> master (stale info)
error: failed to push some refs to 'https://github.com/ghadgejayant12/git_assn2.git'
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git pull upstream master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 785 bytes | 56.00 KiB/s, done.
From https://github.com/ghadgejayant12/git_assn2
* branch      master      -> FETCH_HEAD
   a5080a3..476e0c6 master -> upstream/master
Updating a5080a3..476e0c6
Fast-forward
 new1.txt | 1 +
 1 file changed, 1 insertion(+)
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git push upstream master --force-with-lease
Everything up-to-date
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ notepad new1.txt
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
       modified:   new1.txt
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git add .
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git commit -m "force with lease:
> "
[master c94d2b7] force with lease:
 1 file changed, 1 deletion(-)
```

```
Jayant Ghadge@LAPTOP-N04E9TJ8 MINGW64 ~/git_test (master)
$ git push upstream master --force-with-lease
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 342 bytes | 171.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ghadgejayant12/git_assn2.git
 476e0c6..c94d2b7 master -> master
```