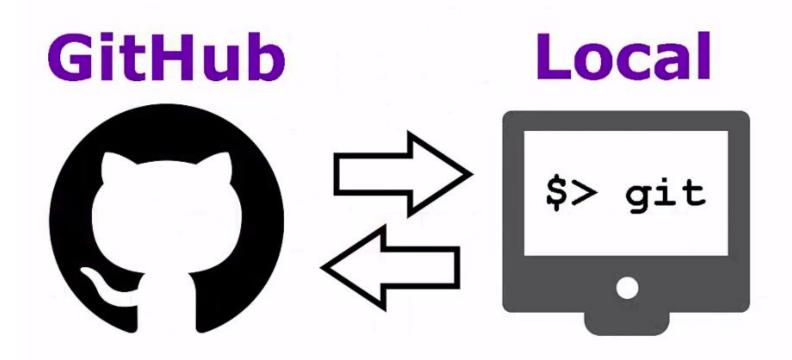
# Part 7 - CLONE, PULL, PUSH TO GITHUB



### **CASE STUDY OF REAL TIME ON CLONE, PULL, PUSH -**

• Order is important and it is best practise to do so.

STEP 1 - clone the required project from github

STEP 2 - Complete tasks on your Local Machine related to Development Activities

STEP 3 - PULL the latest changes on Remote Repository of Github, using below command

## # git pull origin master

#### Note -

- git pull is done to fetch the updates of Remote Repository into Local Repository of user.
- Failure to do this, will cause the conflict error messages

STEP 3 - After Pull is completed Successfully, now push the changes to git Remote Repository

# git push origin master

• Steps should be followed in order

Exercise - Do the exercise for clone, pull and push --

## Q. How to check, what are the files being tracked by git?

# git ls-files

- It shows all the files are tracked by git
- \*\*It means the files listed are either tracked under staging area or under Local Repository on Local PC

#### Case Study -

Let us say I made the changes to a file twice and both times I have pushed to staging area in both times. What happens, if commit changes to Local Repository?

Solution: ???

# Case Study -

Let us say, you have added the file called startup.txt to staging area, then you edited the startup.txt file and added the content.

#### Now

- Q. Should we add the startup.txt file to staging area again?
- Q. if we execute git status command, what changes do you see?

```
[root@localhost projects]# git status
# On branch master
# Your branch is ahead of 'origin/master' by 1 commit.
# (use "git push" to publish your local commits)
#
# Untracked files:
# (use "git add <file>..." to include in what will be committed)
#
# startup.txt
nothing added to commit but untracked files present (use "git add" to track)
[root@localhost projects]# git add startup.txt
[root@localhost projects]# cat /etc/shadow >> startup.txt
```

```
[root@localhost projects]# git status
 On branch master
 Your branch is ahead of 'origin/master' by 1 commit.
   (use "git push" to publish your local commits)
 Changes to be committed:
    (use "git reset HEAD <file>..." to unstage)
       new file: startup.txt
 Changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git checkout -- <file>..." to discard changes in working directory)
[root@localhost projects]#
```

#### CASE STUDY - TO ADD AND COMMIT CHANGES IN ONE GO.

- Create a file on Working Area on Local Machine
- Then use below command to add and commit changes to Local Repository in one go.

# git commit -am "message" filename

Sample -

Check with it on depreciattion

### Q. How to add the changes Recursively?

Let us create few folders under Project folder

```
[root@localhost projects]# mkdir globe
[root@localhost projects]# cd globe
[root@localhost globe]# touch globe_file
[root@localhost globe]# mkdir asia
[root@localhost globe]# cd asia
[root@localhost asia]# touch asia_file
[root@localhost asia]# mkdir india
```

```
[root@localhost asia]# cd india
[root@localhost india] # touch india file
[root@localhost india]# git status
 On branch master
 Your branch is ahead of 'origin/master' by 3 commits.
    (use "git push" to publish your local commits)
 Untracked files:
    (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[root@localhost india]#
```

```
[root@localhost india]# cd ..
[root@localhost asia]# cd ..
[root@localhost globe]# git status
 On branch master
 Your branch is ahead of 'origin/master' by 3 commits.
    (use "git push" to publish your local commits)
 Untracked files:
    (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[root@localhost globe]# cd ..
[root@localhost projects]# git status
 On branch master
 Your branch is ahead of 'origin/master' by 3 commits.
    (use "git push" to publish your local commits)
 Untracked files:
    (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[root@localhost projects]#
```

```
[root@localhost projects]# git add globe
[root@localhost projects]# git status
# On branch master
 Your branch is ahead of 'origin/master' by 3 commits.
    (use "git push" to publish your local commits)
 Changes to be committed:
    (use "git reset HEAD <file>..." to unstage)
       new file: globe/asia/asia file
       new file: globe/asia/india/india file
       new file: globe/globe file
[root@localhost projects] # git commit -m "adding globe folders" .
[master 66b004e] adding globe folders
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 globe/asia/asia file
create mode 100644 globe/asia/india/india file
create mode 100644 globe/globe file
[root@localhost projects]#
```

## **EXPECTED INTERVIEW QUESTIONS -**

Q. When we should use git pull?

Q. What are command line arguments for git pull?

# Case Study:

I have made some changes on Local Repository, when I try to push to remote repository into github or server, I am getting error message. What could be the issue?

# **THANK YOU**