

## **The process of using GIT and our findings in local repo.**

1. Create a project folder.
2. Inside the project folder we performed
  - a. git init
3. We created page or pages inside the project folder and did
  - a. git add <filename> or git add .
    - i. Add wouldn't happen, it asks to set user name and email.
    - ii. Set user name and email
      1. git config --global user.name "your name"
      2. git config --global user.email "your email"
4. Finally we were able to add the files using the steps in 3.a.
5. With add done, unstaged files were now staged. Its time to commit.
  - a. git commit -m "add some meaningful message".

## **GIT branching**

To create branch : `git checkout -b branch_name`

Example: `git checkout -b test`

Note: with above line of git command, we shift to the newly created branch test.

To move between branches:

`git checkout master`

`git checkout test`

## **!! Important !!**

Do understand that *the whole process of add, commit in a master or any branch is same*; either you are doing the thing in master or the same thing in the branch.

## **GIT merge**

Say you have created a branch named test, made changes to it; committed and you want that change available in the trunk i.e. master.

The process follows as:

`git checkout master`

`git merge test`

## **!! Question !!**

What would you do to get the changes of master in the branch? Do try it out.

## **Finally let's move on to the Github**

First create a user.

## **!! Very Important !!**

Manage the ssh-key, do research on your own for it; links have been provided already.

Next create a repository you will be provided with code samples from the code sample make use of the following code in your local repo, in terminal.

1. git remote add origin

<https://github.com/dadhiramp/testing.git>

where <https://github.com/dadhiramp/testing.git> is my link, you need to replace it by yours.

2. git push -u origin master

The second code will push the local repo to the repo origin with branch master in the remote.

Later on you can do simply: git push

Now if you want to pull the changes in the remote repository to your local repo you need to be familiar with

```
git pull origin master
```

Here I am making a pull request of master of remote to my local repo.

### **!! Question !!**

What would you do to pull the branch created in the remote?

## **Conflict Management**

I have provided with the youtube video link in the previous announcement, and placing the link here too:

<https://www.youtube.com/watch?v=DVRQoVRzMIY&t=2327s>

Go through the link, along with the process mentioned in this document; create conflict and resolve them too.

Things to consider:

After resolving conflict, you need to do git add and git commit.

Last but not the least and it's a repetition indeed, most of you will fail the first time; but don't lose hope with just one try, keep on trying it.

By the end of the weekend, you will have gained more info of git.

Separate time for R&D and teach yourself the tools, you are your own teacher.