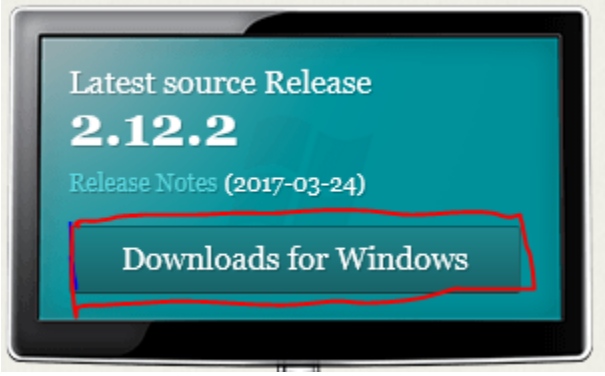
Git Installation on Windows

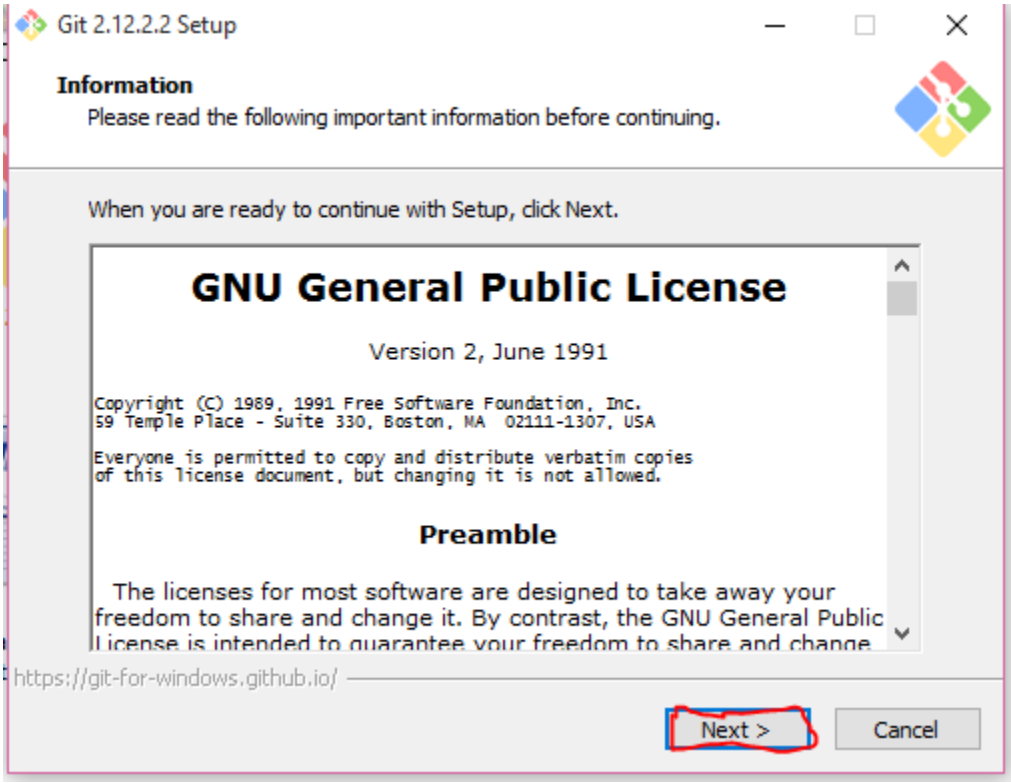
Step 1: Open your browser

Step2: Goto google.com type GIT and then please click on first link in search and download the GIT software for windows.

https://git-scm.com/

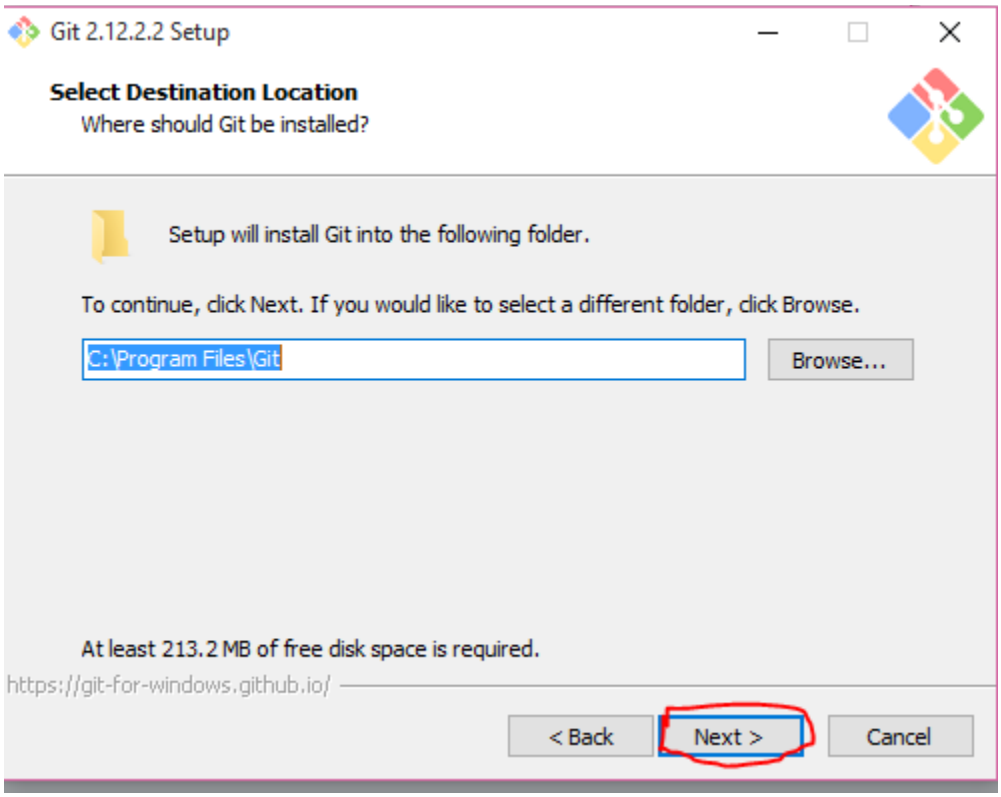


Step3: Click on



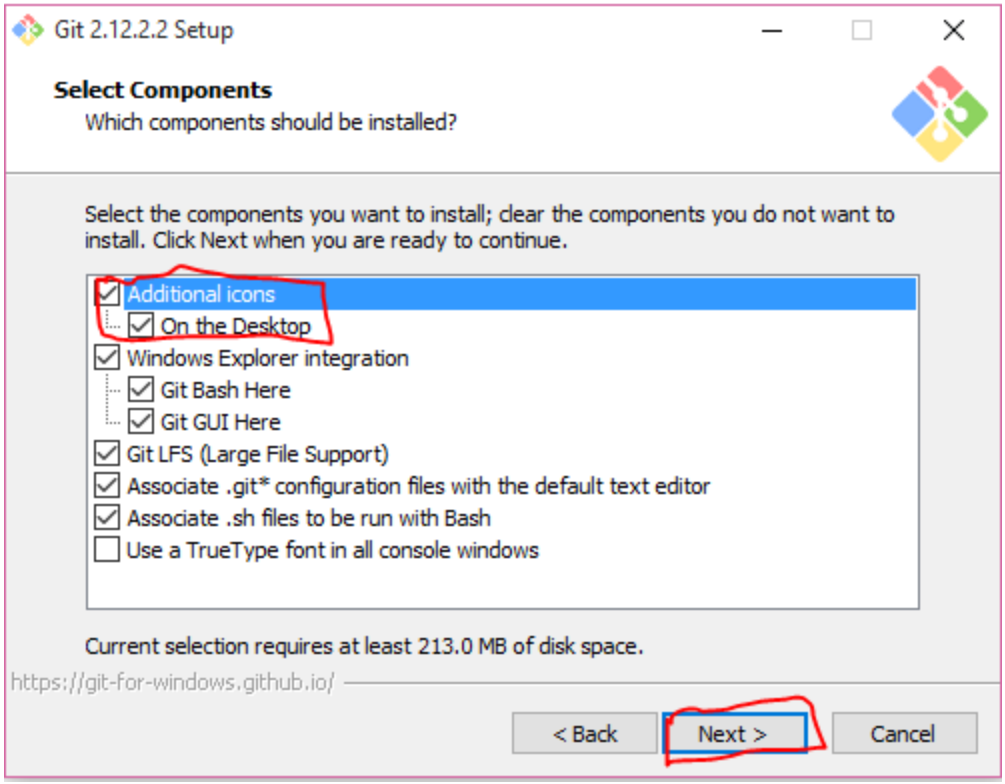
Step 4 : Choose your location where you need to install git software

And then Click on next

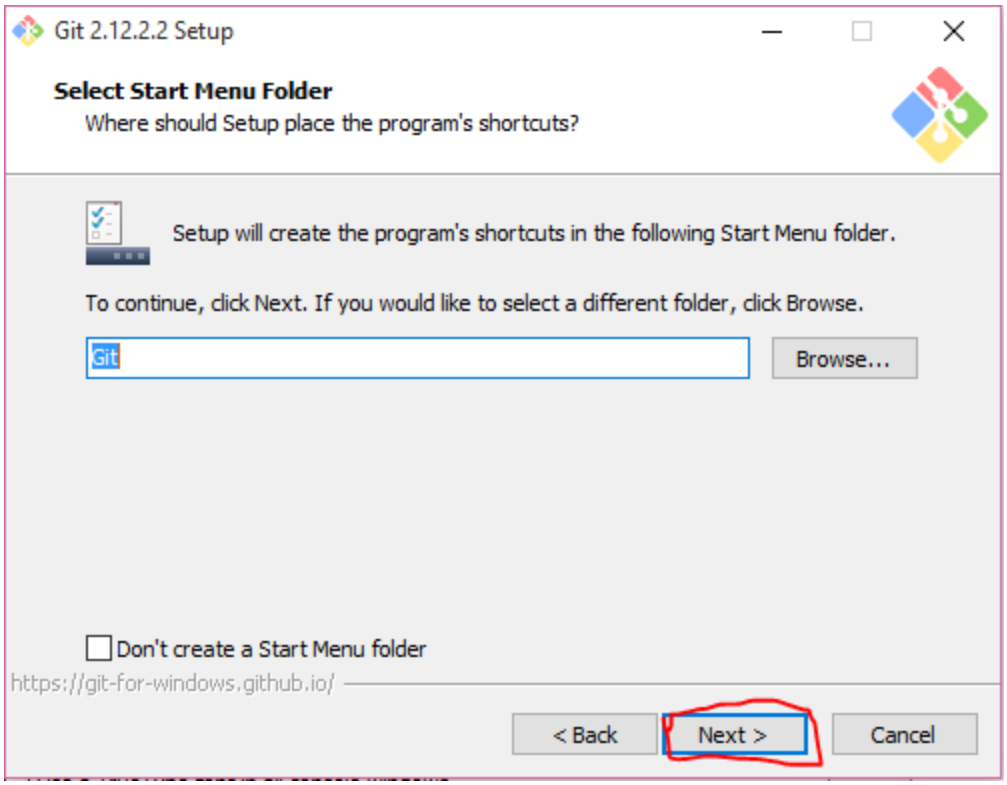


Step 5: Select the option an additional icon which I have highlighted in screen shot

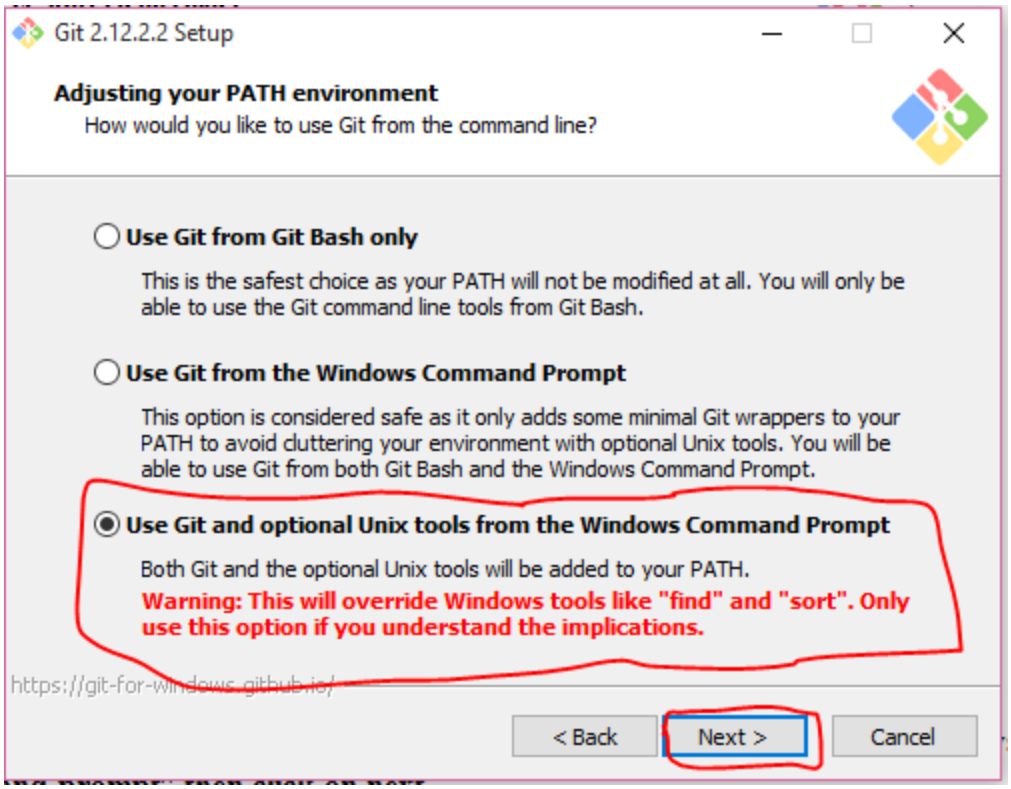
And click on next



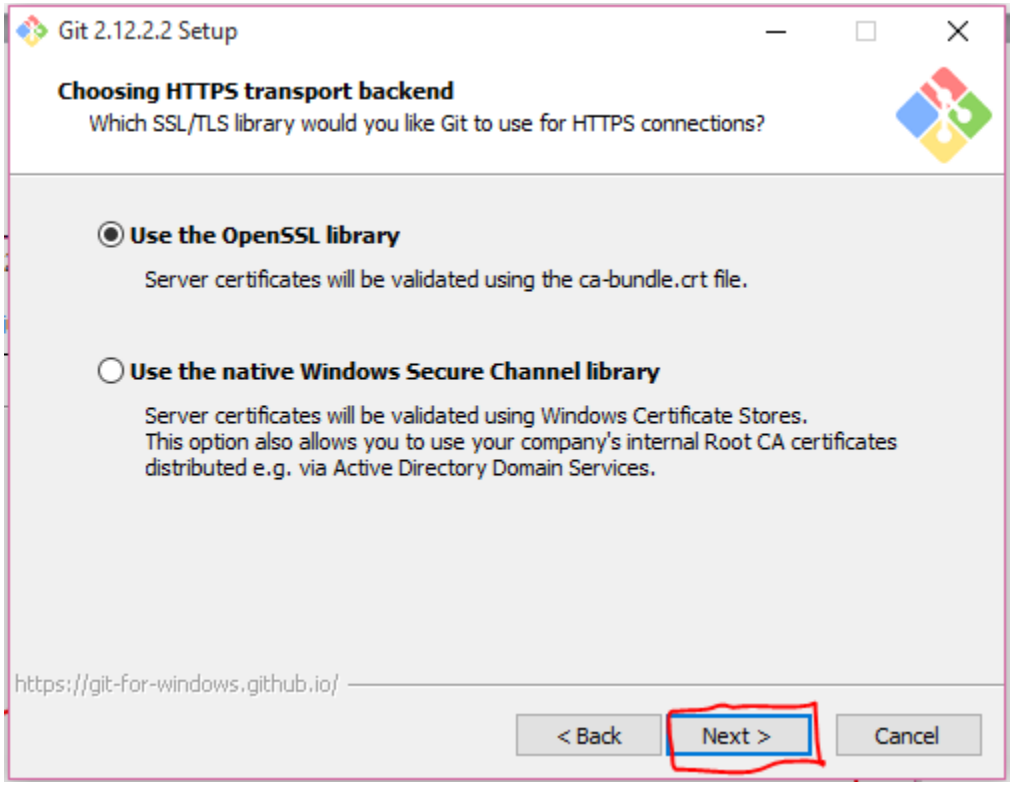
Step 6 : Clock on next



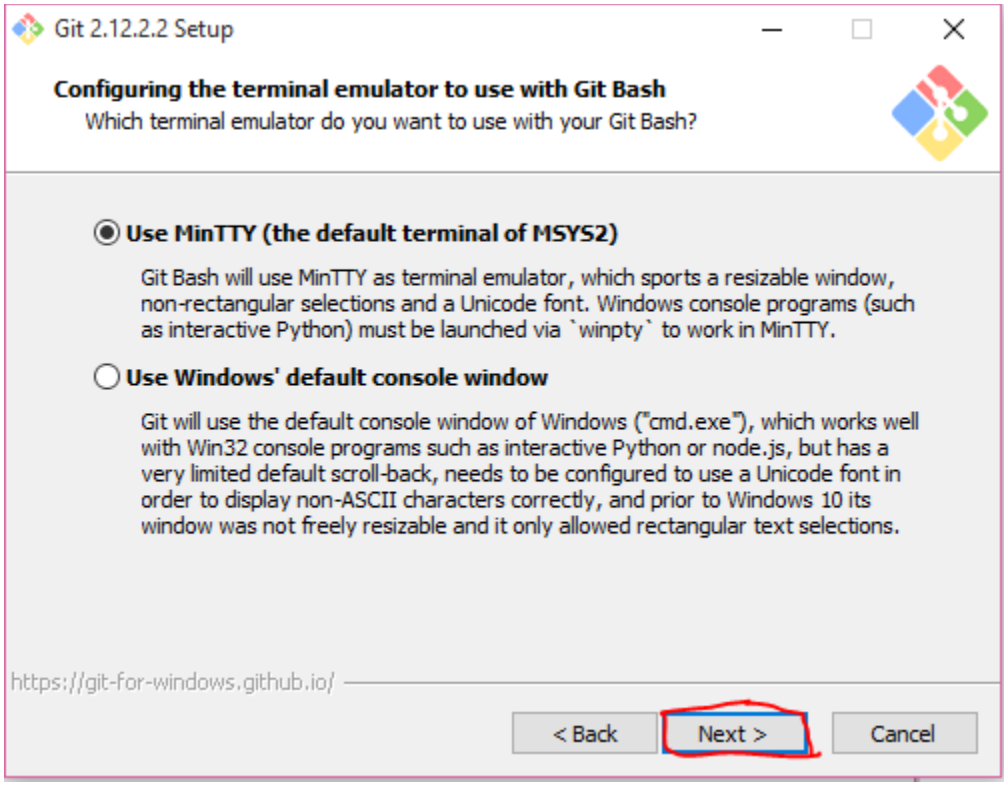
Step 7 : select the last option is “use git and optional unix tools from the windows command prompt” then click on next



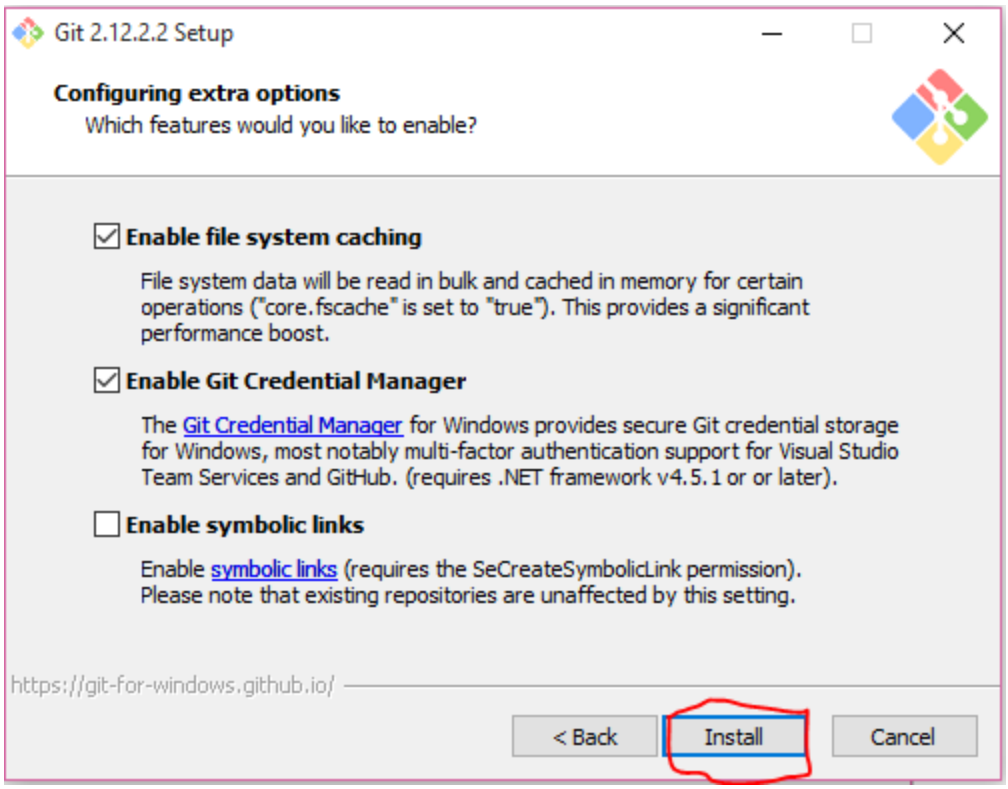
Step 8 : Click on next



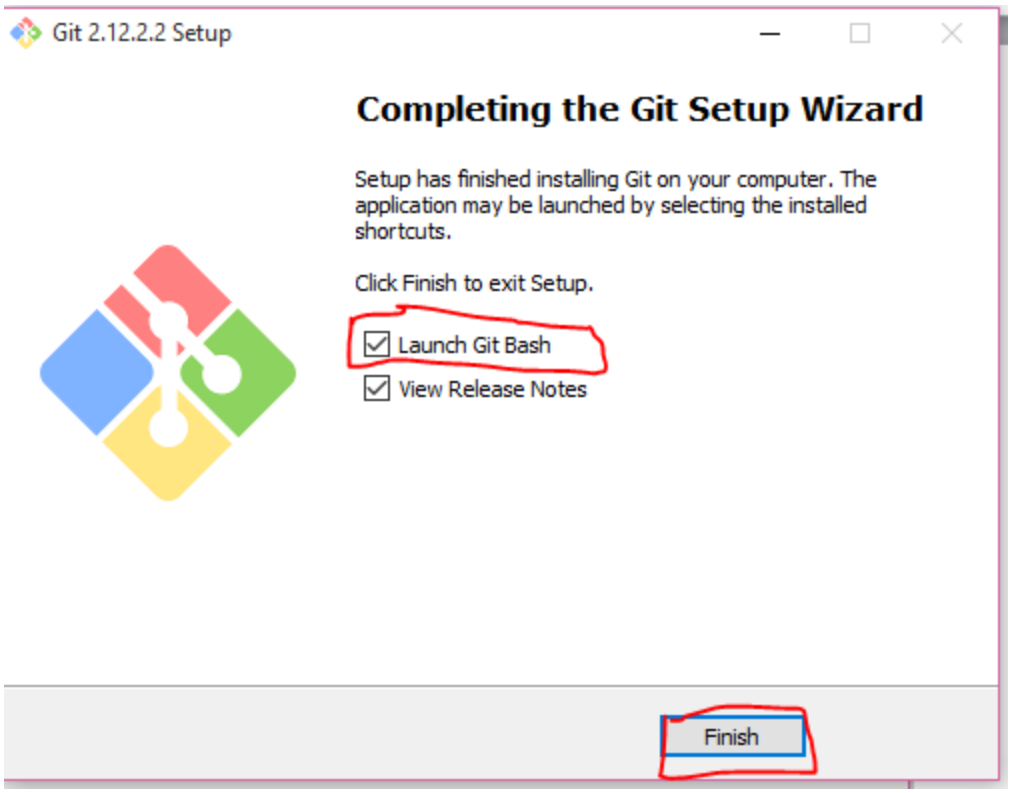
Step 9 : Click on next



Step 10 : Click on install



Step 11: select launch git bash option and then click on finish



Git Commands

Git User Configuration

git config --global user configuration in git

git config --global user.name "Username" (Git hub account user name)

git config –global user. Email srenu.satyavani@gmail.com

git clone= Git clone (working repository URL)

we have to create files here using vi editor or any other methods

git status

git add .

git commit –m “message”

git push origin master

git log

Git status

Mkdir gitserver

Mkdir dev1

Mkdir dev2

Cd gitserver

git - -bare init

cd dev1

git init

here you can see there is a hidden folder called .git

cd .git

git remote add origin <git server path>

git remote –v

git push origin master

1. **What are branches**
2. **How to create a branch**
3. **How to checkout a branch**
4. **How to merge branch to master**
5. **How to delete a branch (local and remote)**

Step 1. Create Branch

git branch <branch name> or git checkout –b <branch name>

step 2. Checkout branch

git checkout <branch name>

step 3. Merge new branch in master branch

git merge <new branch name>

step 4. Deleting the branch

git branch –d <branch name> --- This will only remove from local

git push origin –delete <branch name> --- This will remove from remote server repository.

Step 5. How to push local branch to server

git push origin <New Branch>

GIT Tags :

1. **What are tags**
2. **Why should I create tags**
3. **When to create tags**
4. **How to create tags in git.**

1.what are tags :

- ❖ In git or any version control system to creating specific points in history for your repository/data
- ❖ This is usually done to mark release points.

2. Why should I create Tags:

- ❖ To mark release points for your code/data
- ❖ To create historic restore points.

3. When to create Tags:

- ❖ When ever you want to create a release point for a stable verson of your code.

Steps to be followed for Tags :

- ❖ We need to checkout the required branch where you want to create a tag

```
git checkout <branch name>
```

create a tag :

git tag <tag name>

ex : git tag v1.0

If you want to check all created tags

git tag

This is a light weight tag, and we can create annotated tags also

git tag –a v1.1 –m “Tag created release for v1.1”

git tag

v1.0

v1.1

Diff between light weight tag and annotated tag is , here you can create some message and it also contains all the information about the tags and it wil be stored as a complete git object in a git repository.

How to display the tags :

git tag

git show v1.0

git tag –l “V1.*”

How to push tags to remote :

Git push origin v1.0 -> This is for single tag

Git push –tags

Git push origin –tags

These above 2 commands to push multiple tags to git repository.

Delete tags:

git tag –d v1.0 --- deleting from local

git tag –delete v1.0

git tag

Deleting from repository :

Git push origin –d v1.0

Git push origin –delete v1.0

Git push origin :v1.0

Deleting multiple tags :

Git tag –d v1.0 v1.1 --- from local

Git push origin –d v1.0 v1.1 --- from server

For old commits also we can create tags

Git tag <tag name> <commit id>