**GIT Commands**

1. **Install GIT -** [**https://git-scm.com/**](https://git-scm.com/)

Download the latest version and install

* GIT Bash
* GIT cmd
* GIT GUI

1. **To create a GIT repository**

* **There are two types of repositories**
* **Bare repository –** U cannot create files and commit but others can push their files here
  + **Git init --bare**
* **Non Bare repository** – A full fledged repo where u can commit ur files, create branches and execute every GIT command
  + **Git init**

1. **To view the status of a repository**

* **Untracked files – A file which is never committed,**
* **Uncommitted files – Which are committed earlier but they have been modified**
* **Committed – Every change is committed** 
  + **Git status**

1. **To move the files to staging area – Staging area is a temporary virtual area. Files are moved from folder to the staging area. A commit happens on the staging area**
   * **Git add .**
   * **Git add f1.txt**
   * **Git add f1.txt f2.txt**
   * **Git add \*.txt**
   * **Git add \*1.txt**
2. **Commit a file – Start tracking a file. Version control a file**
   * **Git commit -m “This is first commit”**
3. **To view the details of all the commits** 
   * **Git log**
4. To view the changes in the last commit
   * **Git show**
5. I have done 4 commits after that I want to revert my files as they were in First commit

commit 9636da6d08c61f710757fa6db53eee843e42a1cd (HEAD -> master)

Author: Hema G <hema.g@capgemini.com>

Date: Thu Sep 20 12:25:05 2018 +0530

V4.0

commit a01bf5f795b6e8c1cf5711d0dd1687e3d59e2102

Author: Hema G <hema.g@capgemini.com>

Date: Thu Sep 20 12:24:09 2018 +0530

V3.0

commit 0724712acca041fef14cf0048a1eda4cd329d97b

Author: Hema G <hema.g@capgemini.com>

Date: Thu Sep 20 12:20:19 2018 +0530

V2.0

commit 0c08817fd03a859bfa0e96093a29913a034e191e

Author: Hema G <hema.g@capgemini.com>

Date: Thu Sep 20 11:48:45 2018 +0530

V1.0

* **Git checkout** 0c08817

1. It is very difficult to remember commit Id. So we can create Tags for each commit if required

* **Git tag “T4” 9636da6**
* Git checkout T4

1. When a repo is initialized a **master** branch is created

* **Git branch** – This lists all the branches in a GIT repo
* **Git branch Test** – This will create a branch with name “Test”
* **Git checkout Test** – This will switch over to the branch “Test”

1. Merge branch

* **Git checkout Branch1**
* **Git merge Branch2**
  1. No Conflict
  2. Conflict

1. Move the contents from a branch in One repository to the same branch in another repository

* **Git push D:/centralrepo/repo1 Test**
* **To Push to a remote repo**
* **Git remote add demoRepo** [**https://github.com/HemaGRepo/SourceCode.git**](https://github.com/HemaGRepo/SourceCode.git)

1. A repository can pull the contents from another repo

* **Git pull D:/forDemos/projectA master**