Git: Git is a distributed revision control and source code management system with an emphasis on speed.

### Advantages of using Git:

### 1) Git is available freely over the internet and you can download its source code and also perform changes according to your requirements without paying money.

### 2) It gives a huge benefit in term of speed and its most of the functions are perfomed locally.

### 3) Git does not rely on the central server; that is why, there is no need to interact with the remote server for every operation.

Difference between Git and SVN: Subversion (SVN) repositories are similar to Git repositories, but there are several differences when it comes to the architecture of your projects.

Svn:

* The trunk directory represents the latest stable release of a project.
* Active feature work is developed within subdirectories under branches.
* When a feature is finished, the feature directory is merged into trunk and removed.

Git:

1. A Git repository stores the full history of all of its branches and tags within the *.git* directory.
2. The latest stable release is contained within the master branch.
3. Active feature work is developed in separate branches.
4. When a feature is finished, the feature branch is merged into master and deleted.

Repository with your name and with Unique rollnumber: https://github.com/Nabil134/oop

Command to commit your work in Git: $ git commit -m “Brief description of your commit”

Git Clone: Clone operation creates the instance of the repository. Clone operation not only checks out the working copy, but it also mirrors the complete repository. Users can perform many operations with this local repository.

Command to delete a branch: $ git push <remote\_name> --delete <branch\_name>

Architectiure of git in your own words: When I started working with Git I had some experience with Concurrent Versions System (CVS) and Apache Subversion (SVN), so I tried to understand it in terms of those classic source code repository systems. That way of thinking only got me a limited understanding of Git's capabilities. Since then I have grown to understand Git much better.

Resolve a conflict: You can resolve [merge conflicts](https://help.github.com/articles/about-merge-conflicts) using the command line and a text editor.

**Different vendors working on VCS**

Svn,mercural,gi