

# Git and Github

## Assignment

### Q 1. What is Git ?

A 1. Git is a popular version control system (VCS). It was created by Torvalds in 2005 and has been maintained by Junio Hamano.

Git is used for tracking code changes and coding collaborations.

### Q 2. What do you understand by the term “version Control System” ?

A 2. It is a system that records changes to a file or set of files over time, so that we can recall specific versions later, for every source code changes in a file a new versions will be created.

### Q 3. What is Git hub?

A 3. GitHub is a Git repository hosting service. GitHub also facilitates with many of its features, such as access control and collaboration. It provides a Web-based graphical interface. It offers both **distributed version control and source code management (SCM)** functionality of Git. It also facilitates with some collaboration features such as bug tracking, feature requests, task management for every project.

### Q 4. Mention some popular Git hosting services.?

A 4. Github, Gitlab, Bitbucket ,Beanstalk ,Gitblit these are some popular Git hosting services.

### Q 5. Different type of version control systems?

A 5. There are three type of version control systems:-

1. Local version control System (LVCS)
2. Centralized control system (CVCS)

### 3. Distributed version control system (DVCS)

## Q 6. What benefits come with using GIT?

**A 6.** Benefits of Git :-

- i. Developer will develop the code in local.
- ii. Move the code into remote server of branch.
- iii. Do the proper testing in branch.
- iv. If it is working fine then move from branch to master.
- v. Move the code from master to target.

## Q 7. What is git repository?

**A 7.** Repositories in [GIT](#) contain a collection of files of various different versions of a Project. These files are imported from the repository into the local server of the user for further updations and modifications in the content of the file.

## Q 8. How can you initialize a repository in Git?

- A 8.**
1. It is an open source software.
  2. it is in the form of .exe file
  3. download git.exe. file from google.
  4. Run the git.exe file in git bash, git GUI ,git cmd