

# **Git And Github Assignment**

## **1.What is git?**

Git is a version control system, usually used for coordinating work among programmer's collaboratively developing source code during software development.

## **2. What do you understand about the term version control system?**

Version control systems are Software tools that help software teams manage changes to source code over time.As development environments have accelerated, version control system help software teams work faster and smarter.

## **3. What is gitHub?**

GitHub is an internet hosting service for software development and version control using Git. It provides the distributed version control system of git plus access control,bug tracking,software feature requests,task management,continuous integration and wikis for every project.

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

GitHub,Gitlab,Bitbucket,Gitblit etc....

## **5. Different types of version control system?**

- 1-Centralized version control system (CVCS)
- 2-Distributed version control system (DVCS)

## **6. What benefits come with using Git?**

Branching capabilities , performance, security , flexibility, wide acceptance

## **7. What is a Git repository?**

In Git, the repository is like a data structure used by VCS to store metadata for of files and direction.it contains the collection of the files as well as the history of changes made to those files.

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

You'll use the git init command.git init is a one time command you use during the initial setup of a new repository.Executing this command will create a new. Git subdirectory in your current working directory. This will also create a new main branch.