

## Assignment - 2

Date	/	/
Page		

Q.1. What is Git?

Ans → Git comes across as an easy tool that can be learned later when there is a real need. But that day comes when the git command shoots an error, after which Git becomes too complicated to understand. Often developers resort to copy-pasting which doesn't help in the long run.

Q.2. What do you understand by the term 'version control system'?

Ans → Version control, also known as source control, is the practice of tracking and managing changes to software code. Version control systems are software tools that help software teams manage changes to source code over time.

Q.3. What is GitHub?

Ans → GitHub is a for-profit company that offers a cloud-based Git repository hosting service. Essentially it makes it a lot easier for individuals and teams to use Git for version control and collaboration.



Q.4. Mention some popular Git hosting Services.

Ans → ① Amazon AWS Codecommit, ② Assembla  
 ③ Beanstalk ④ BitBucket  
 ⑤ Codebase ⑥ Fog Creek Kiln  
 ⑦ GitHub ⑧ GitLab ⑨ Launchpad.

Q.5 Different type of version control systems

Ans → ① Mercurial ② Concurrent Version System  
 ③ GNU Bazaar  
 ④ GitLab ⑤ Azure DevOps Server  
 ⑥ Monotone ⑦ Bitkeeper.

Q.6 What Benefit come with using GIT?

Ans → one of the Biggest advantages of Git is its branching capabilities. Unlike centralized version control system. Git Branches are cheap and easy to merge. This facilitates the Feature Branch workflow popular with many Git users. Feature Branches provides an isolated environment for every change to your codebase.



Q.7. What is Git repository?

Ans → A Git repository tracks and saves the history of all changes made to the file in a Git project. It saves this data in a directory called .git also known as the Repository folder. Git uses a version control system to track all changes made to the project and save them in the Repository.

Q.8. How can you initialize a Repository in Git?

Ans → Specify that the Git Repository is to be shared among several users. This allows users belonging to the same group to push into that Repository.