

1. AGGINGMENT

1. what is git

Ans: Git is an open-source distributed version control system. It is designed to handle minor to major projects with high speed and efficiency. It is developed to co-ordinate the work among the developers. The version control allows us to track and work together with our team members at the same workspace.

2. what do you understand by the term version control system

Ans: A version control system is a software that tracks changes to a file or set of files over time so that you can recall specific versions later. It also allows you to work together with other programmers.

The version control system is a collection of software tools that help a team to manage changes in a source code. It uses a special kind of database to keep track of every modification to the code.

Developers can compare earlier versions of the code with an older version to fix the mistakes.

3. what is github

Ans: 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.

GitHub is an American company. It hosts source code of your project in the form of different programming languages and keeps track of the various changes made by programmers.

4. mention some popular git hosting services

Ans:

1. Bitbucket
2. GitHub
3. GitLab
4. Perforce
5. Beanstalk
6. Amazon AWS CodeCommit
7. Codebase
8. Microsoft Azure DevOps
9. SourceForge
10. Gerrit

5. different types of version control systems

Ans:

- Ans: Local Version Control System.
- Centralized Version Control System.
- Distributed Version Control System.

6. What is git repository

Ans:

A **GIT** repository allows performing various operations on it to create different versions of a project. These operations include the addition of files, creating new repositories, committing an action, deleting a repository, etc. These modifications will result in the creation of different versions of a project.

7. what benefits come with using git

Ans:

One of the biggest advantages of Git is its branching capabilities. Unlike centralized version control systems, Git branches are cheap and easy to merge. This facilitates the feature branch workflow popular with many Git users. Feature branches provide an isolated environment for every change to your codebase.