

Git and GitHub Assignment

Assignment(2)

1. What is Git?

Ans:- Git is a version control system. It is an open source system. It is used to store the history of the changes in the code base or the system or the project on which we are working. It saves all the changes history of the project. It helps to work so many developers at a time on a single project. It removes ambiguity between developers. Git runs locally. It helps you track different versions of your code and collaborate with other developers.

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

Ans:- Version control is the exercise of tracking and managing changes to software code. It is also known as source control system. It is basically a software tool that helps software teams manage changes to source code over time.

3. What is GitHub?

Ans:- GitHub is a central repository hosting platform. Where we can host our code and make changes on them by the help of a team. It is a free open source community platform. Major two functionalities we can perform with the GitHub: first is push code in our repository and second is pull code from our repository.

4. Mention some popular Git hosting services.

Ans:-

- a. GitHub
- b. Amazon AWS CodeCommit
- c. Codebase
- d. SourceForge
- e. Microsoft Azure DevOps
- f. Beanstalk
- g. Bitbucket
- h. GitLab
- i. Perforce

5. Different types of version control systems.

Ans:- There are three types of version control system:-

- I. Local version control system

- II. Centralized control system
- III. Distributed version control system

6. What benefits come with using GIT?

Ans:- These are the benefits of using git:-

- a. Performance
- b. Security
- c. Branching model
- d. Staging area
- e. Distributed
- f. Open source

7. What is a Git repository?

Ans:- Git repository is not so much vast thing, it is just a type of folder which contain a collection of files of various different versions of a project.

8. How can you initialize a repository in Git?

Ans:- To create a new repo, we will use the git init command. git init is one-time command we use during the initial setup of a new repo. Executing this command will create a new .git subdirectory in our current working directory. This will also create a new main branch.