

PW SKILL ASSIGNMENT -->3

Question -- > What is Git?

Answer --> 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.

Question -- > What do you understand by distributed version control system?

Answer --> A distributed version control system (DVCS) brings a local copy of the complete repository to every team member's computer, so they can commit, branch, and merge locally. The server doesn't have to store a physical file for each branch — it just needs the differences between each commit.

Question --> What is GitHub?

Answer --> 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.

Question --> Mention some popular git hosting services?

Answer --> bitbucket, GitHub, GitLab, perforce, beanstalk.

Question --> Different types of version control systems?

Answer --> Centralized Version Control Systems, Distributed Version Control Systems, Local Version Control Systems.

Question --> What benefits come with using GIT?

Answer --> Security Git is designed specially to maintain the integrity of source code, Performance Git performs very strongly and reliably when compared to other version control systems.

Question --> what is a git repository?

Answer --> 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.

Question --> How can you initialize a repository in Git ?

Answer --> To create a new repository the **git init** command is used. It is used to convert an existing project to git repository.