1. **What is Git?**

**Ans:** Git is a free and open-source distributed version control System. Git helps you keep track of code changes. It is one of the popular platforms for code hosting. It also helps in version controlling and collaborating with multiple developers to work on the same project and update it online.

1. **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.

1. **What is GitHub?**

**Ans:** GitHub is a code hosting platform for version control and collaboration. GitHub is a for-profit company offering a cloud-based Git repository that helps developers store, manage, track and control changes to their code.

1. **Mention some popular Git hosting services.**

**Ans:**

**Bitbucket:** Bitbucket is counted amongst one of the best tools in the Git hosting version control category.

**Amazon AWS Code Commit:** Amazon AWS CodeCommit is hosted and completely managed by Amazon, it can be used to privately host data and manage them in the cloud.

**CodeBase**

**Micorsoft Azure Repository**

**Sourceforge**

**Gerrit**

1. **Different types of version control systems.**

**Ans:** There are two types of version control systems

1. **Centralized**: Centralized version control systems contain just one repository globally and every user need to commit for reflecting one’s changes in the repository.
2. **Distributed** **version** **control** **systems**: Distributed version control systems contain multiple repositories. Each user has their own repository and working copy. Just committing your changes will not give others access to your changes. This is because commit will reflect those changes in your local repository and you need to push them to make them visible on the central repository. Similarly, when your update, you do not get other’s changes unless you have first pulled those changes into your repository.
3. **What benefits come with using GIT?**

**Ans:**

* Enhances the project development speed by providing efficient collaboration.
* Leverages the productivity, expedites product delivery, and skills of the employees through better communication and assistance.
* Reduce possibilities of errors and conflicts mean while project development through traceability to every small change.
* Informs us about who, what, when why changes have been made.

1. **What is a Git repository?**

**Ans:** It can be thought of as a database of changes. It contains all the edits and historical versions of the project.

1. **How can you initialize a repository in Git?**

**Ans:**

git init

git add .

git commit -m “First Commit”

**----------------------Complete-------------------------**