**Q1 what is Git?**

Git is a version control system.it is a popular version control system, it was created by Linus Torvalds in 2005 and has been maintained by Junio Hamano.

**Q2 what do you understand by version control system?**

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. As development environments have accelerated, version control systems help software teams work faster and smarter. They are especially useful for DevOps teams since they help them to reduce development time and increase successful deployments.

**Q3 what is GitHub?**

* GitHub is a repository.
* It is the largest host of source code in the world.
* It is used to store/maintain the source code of the Project.
* It can contain folders and any type of files(HTML CSS, JavaScript, Documents, Data, Images).

**Q4 Mention some popular Git hosting services.**

* Bitbucket.
* Gitlab.
* Perforce.
* Beanstalk.
* Amazon AWS Code Commit.

**Q5 Different types of version control systems.**

There are two types of version control systems: **Centralized** and **distributed**.

**Q6 what benefits come with using Git?**

* Save time.
* Offline working.
* Undo Mistakes.
* Track Changes.

**Q7 What is Git repository?**

Git is an open-source software used for tracking project changes and revisions across different teams. Git saves different versions of projects in a folder known as a Git repository.

**Q8 How can you initialize a repository in Git?**

Use the init command to initialize the local directory as a Git repository.