**Assignment Questions**

1. **What is Git?**

**Git is a popular version control system(VCS), it was created by Linus Torvalds in 2005 and has been maintained by Junio Hamano. Git is based on the Distributed version control system.**

**Git is used for:**

1. **Tracking code changes**
2. **Tracking who made changes like history of the files**
3. **Coding collaborations**
4. **What do you understand by the term ‘version control system’?**

**It is a system that records changes to a file or set of files over time, so that we can recall specific versions later i.e., for every source code changes in a file a new version will be created**

1. **What is GitHub?**

**GitHub is also known as Git Server. GitHub is a platform in which we can create a repository or multiple repository. It is the largest host of source code in the world. It is used to store/maintain the source code of the project.**

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

**Some popular Git hosting services are:**

1. **GitHub**
2. **GitLab**
3. **Bit Bucket**
4. **Git Blit**
5. **Git Bash**
6. **Git GUI**
7. **Git CMD**
8. **Different types of version control system**

**Types of version control system are:**

1. **Centralized Version Control System(CVCS)**
2. **Distributed Version Control System(DVCS)**
3. **What benefits come with using Git?**

**Benefits come with using Git are as follows :**

* **It is a repository**
* **It is the largest host of source code of the world**
* **I t is used to store/maintain the source code of the project**
* **It is the most popular version control system**
* **It is based on the Distributed Version Control System**
* **It is used widely among the developers.**

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

**Repository is a storage location on the Git where we can store file/data/programme.**

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

**We can initialize a repository in Git by writing a command ‘git init’ in Git Bash.**