**Git and GitHub**

1. **What is Git?**

**Git is a popular distributed version control system (VCS). It was created by Linus Torvalds in 2005 and has been maintain by Junio Hamanon.**

**Usually used for coordinating work among programmers collaboratively developing source code during software development.**

**Its goals include speed, data integrity, and support for distributed, non-linear workflows.**

**It is a Distributed Version Control System.**

1. **What do you understand by the term ‘Version Control System’?**

**It is the practice and managing changes to software code. VSC are software tool that help software teams to manage changes to source code over time.**

1. **What is GitHub?**

**It is a hosting service for software development and version control system using Git.**

**It provides the distributed version control of Git plus access control, bug tracking, software features requests, task management, continuous integration etc.**

**Used For: a. Track code change**

**b. Tracking who made change like history of the file**

**c. Coding Collaboration**

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

**GitHub, Gitlab, BitBucket, Gitblit, git GUI, git cmd etc.**

1. **Different types of Version control System?**
2. **Distributed version control**
3. **Centralized version control System**
4. **What benefits come with using GIT?**

**We can track are code changes, track who made changes like history of files, also help in collaborative works and much more.**

1. **What is Git repository?**

**It is the. git/folder inside a project. This repository tracks all changes made to files in your project, building a history over time. Meaning, if you delete the .git/ folder, then you delete your project history.**

1. **How can you Initialize a repository in GIT?**

**Simply by using init command in the folder/project in which Git repository to initialize.**