Java with DSA & System Design
Assignment - Day 3 (Git & GitHub 1)

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1. Git is a DevOps tool for Version Control System. It is used to manage source code for projects. It is an example of distributed version control system technique and used as a client.

2. Version Control System simply means a system which can manage different versions of a project/application/software. It can track all the changes made during development of a project.

3. GitHub is a Git-Server based tool which can work as a Remote Repository or Main Repository for implementing a Version Control System. We can build projects in collaboration with other developers effectively and easily.

4. Git Hosting Services - **Git**, **BitBucket**, **GitLab**, **Perforce** etc.

5. Two types of version control system -

    a. **Centralised VCS** - Only the main repository is used in order to access all the files created by different developers.

    b. **Distributed VCS** - Every developer has their own Local Repository and all the files from different developers can be cloned in their local repository.

6. Git is a distributed version control system. Benefits are that we can build big projects in collaboration with other developers much more effectively than in a centralised version control system. Also it is being used thoroughly in the industry and is the most popular version control system tool.

7. Git repository is a system or storage space which can store all the files being used/involved in a project.

8. By writing the '**git init**' command in the Git Bash.