**AIOPS Assignment 2**

**1. What is GIT and GitHub?**

While Git is a tool that's used to manage multiple versions of source code edits that are then transferred to files in a Git repository, GitHub serves as a location for uploading copies of a Git repository.

Simply put, Git is a version control system that lets you manage and keep track of your source code history. GitHub is a cloud-based hosting service that lets you manage Git repositories. If you have open-source projects that use Git, then GitHub is designed to help you better manage them.

**2. What is a git repository?**

A Git repository tracks and saves the history of all changes made to the files in a Git project. It saves this data in a directory called . git , also known as the repository folder. Git uses a version control system to track all changes made to the project and save them in the repository.

**3. What are the branches in GitHub?**

Branches allow you to develop features, fix bugs, or safely experiment with new ideas in a contained area of your repository. You always create a branch from an existing branch. Typically, you might create a new branch from the default branch of your repository.

The two primary branches in Git flow are main and develop. There are three types of supporting branches with different intended purposes: feature, release, and hotfix.

**4. What do you mean by commit?**

commit means to save the particular task

**5. What is the command used to delete a branch?**

You'll often need to delete a branch not only locally but also remotely. To do that, you use the following command: git push <remote\_name> --delete <branch\_name>.

**6. What is the git-clone command used for?**

git clone is primarily used to point to an existing repo and make a clone or copy of that repo at in a new directory, at another location. The original repository can be located on the local filesystem or on remote machine accessible supported protocols. The git clone command copies an existing Git repository.

**7. What is the difference between git pull and git fetch?**

Git Fetch is the command that tells the local repository that there are changes available in the remote repository without bringing the changes into the local repository. Git Pull on the other hand brings the copy of the remote directory changes into the local repository.