**Day 6- Assignment 4**

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**Problem:** Explain fork and git clone with example

**Solution**:

**Fork**

Forking is a feature provided by platforms like GitHub that allows you to create a personal copy of someone else's repository on your GitHub account. This is useful when you want to contribute to a project or use it as a base for your own work without affecting the original repository.

Example:

1. Original Repository: Imagine there is a repository called example-repo owned by original-user.

2. Forking the Repository: You, your-username, see this repository and want to make some changes. You click the "Fork" button on GitHub, which creates a copy of example-repo under your-username/example-repo.

**Git Clone**

Cloning is the process of creating a local copy of a repository from GitHub (or any other Git hosting service) to your machine. This allows you to work on the project locally.

Example:

1. Cloning a Repository: You want to work on your-username/example-repo on your computer. You use the git clone command to download it

git clone https://github.com/your-username/example-repo.git

This command creates a local copy of example-repo in a directory on your machine.