Assignment 1 : GitHub Profile Creation, Fork, Clone, Update Repository

Aim

To create a GitHub profile, fork an existing repository, clone it into the local system, update it
with changes, and push the updated repository back to GitHub.
Procedure

1. Creation of GitHub Profile

I visited the official GitHub website https://www.github.com.
I clicked on the Sign Up button located at the top-right corner of the page.
I was directed to the account creation page, where I filled in the required details.
After entering all the details, I clicked on Continue which successfully created my GitHub
profile.

2. Forking an Existing Repository

I searched for the given repository:
https://www.github.com/KiranGaikwad2020/Artificial_Intelligence_Lab

I clicked on the Fork option available at the top-right corner.
I updated the repository name as per requirement and then clicked on Create Fork.
This successfully created a forked version of the repository in my profile.

3. Cloning the Forked Repository to Local System

I copied the HTTPS repository URL of my forked repository.
On my system terminal, I ran the command:
git clone <https-repo-URL>

This command created a local copy of the repository.
To confirm, I used:
ls
and verified that the repository was present in my working directory.

4. Updating Changes in the Local Repository

I created a sample file in the cloned repository folder.
I checked the status of the repository using:
git status

Then I added the file to the staging area with:
git add filename

Next, I committed the changes with the message:
git commit -m "Added sample file"

I also configured Git with my email and username using:
git config --global user.email "my-email@example.com"
git config --global user.name "My Name"

5. Pushing the Updated Repository to GitHub
I used the command:
git push

I entered my GitHub credentials when prompted.
Finally, I verified the repository on GitHub and confirmed that my updates were successfully
pushed.
Conclusion
Through this assignment, I learned how to:

● Create a GitHub profile.
● Fork an existing repository.
● Clone the forked repository to my local system.
● Make changes and commit them in the local repository.
● Push the updated repository back to GitHub.

This helped me understand the complete workflow of GitHub version control.