# **Assignment: 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](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.