Assignment 01: Git- Basics

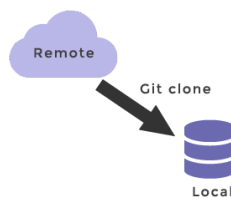# (Clone, Commits, Push and Pull Changes)

Start Time: End Time:

1. Task: Cloning a Repository
   - Description: In this Task, students will practice cloning a remote repository to their local machine.
   - Steps:
     - Choose a public repository on GitHub and provide the repository URL to the students.
     - Instruct the students to use the **git clone** command to clone the repository to their local machine.
     - Ask them to verify that the repository has been successfully cloned and accessible on their local system.

2. Task: Adding and Committing Changes
   - Description: This Task focuses on making changes to a local repository and committing those changes.
   - Steps:
     - Provide a simple text file or code snippet to the students.
     - Instruct them to create a new branch and make modifications to the file.
     - Ask them to use **git add** to stage the changes and **git commit** to commit the changes to their local repository.
     - Optionally, they can provide a commit message that describes the changes made.
3. Task: Pushing Changes to a Remote Repository
   - Description: This Task covers the process of pushing local changes to a remote repository.
   - Steps:

- Create a new branch or use the existing branch created in the previous task.
- Ask them to make additional changes to the file.
- Guide them to use **git add** and **git commit** to stage and commit the changes.
- Finally, ask them to use **git push** to push their local branch and changes to the remote repository on GitHub.

4. Task: Collaborative Workflow
   - Description: This task simulates a collaborative workflow where students work together on a shared repository.
   - Steps:
     - You can divide the friends into pairs or small groups.
     - Provide a shared repository URL on GitHub.
     - Each group member clones the repository to their local machines.
     - Ask them to take turns making changes, committing them, and pushing the changes to the remote repository.
     - Encourage them to pull changes made by other group members using **git pull** to keep their local repositories up to date.