# Assignment 1: Manishasushma Anaparthi

Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

# 1. Initialize Git Repository

- Command: `git init`
- Action:Reinitialized the existing Git repository in `E:/WiproJava`.

### 2. Create and Write to File

- Command: `echo "Object oriented programming system." > oops.txt`
- Action: Created `oops.txt` and wrote the text "Object oriented programming system." to it.

## 3. Stage the File

- Command: `git add oops.txt`
- Action: Staged `oops.txt` for commit.

### 4. Commit the File

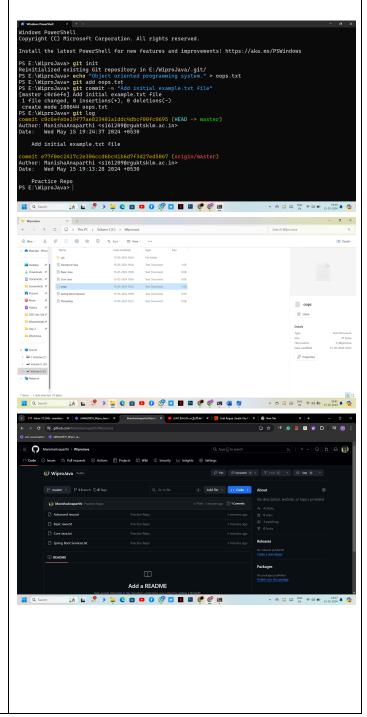
- Command: `git commit -m "Add initial example.txt file"`
- Action:Committed the staged file with the message "Add initial example.txt file".
  - Result: Created commit `c0c6efe`:
  - 1 file changed (created 'oops.txt').
  - File mode `100644`.

## 5. View Commit History

- Command: `git log`
- Action: Displayed the commit history.
- Commits shown:

Commit `c0c6efe`: "Add initial example.txt file" by ManishaAnaparthi on May 15, 2024, 19:24:37 +0530.

- Commit `e77f0ec`:"Practice Repo" by ManishaAnaparthi on May 15, 2024, 19:13:28 +0530.



# **Assignment 2:**

# **Branch Creation and Switching:**

Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

### 1. Reinitialize Git Repository

- Command: `git init`
- Description: Initializes a new Git repository or reinitializes an existing one in the current directory.

#### 2. Create a New Branch

- Command: `git branch feature`
- Description: Creates a new branch named `feature`.

### 3. Switch to the New Branch

- Command: `git switch feature`
- Description: Switches the current working branch to `feature`.

#### 4. Add Text to a File

- Command: `echo "This is a change in the feature branch." >> branch.txt`
- Description: Appends the text "This is a change in the feature branch." to the file `branch.txt`. If the file does not exist, it creates it.

### 5. Stage Changes

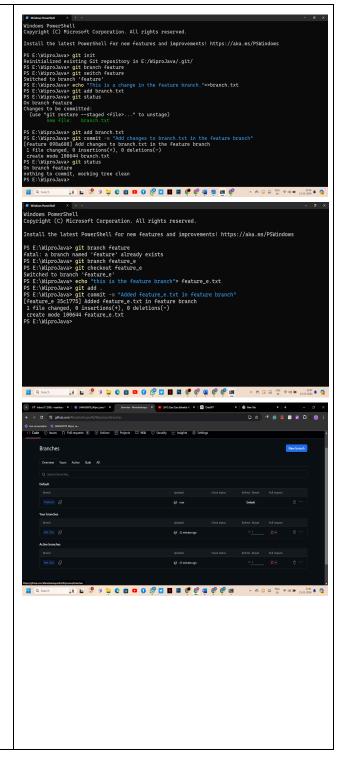
- Command: 'git add branch.txt'
- Description: Stages the `branch.txt` file, marking it for inclusion in the next commit.

#### 6. Check the Status

- Command: git status
- Description: Displays the status of the working directory and staging area, showing which changes are staged for the next commit.

### 7. Commit Changes

- Command: `git commit -m "Add changes to branch.txt in the feature branch"`
- Description: Commits the staged changes with a message describing the changes.



## **Assignment 3:**

**Feature Branches and Hotfixes** 

Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved."

### 1. Create and List Branches:

- `git branch hotfix`: Tried to create `hotfix` branch (failed because it already exists).
- `git branch hot\_fix`: Created `hot\_fix` branch.
  - `git branch`: Listed all branches.

## 2. Switch to `hot\_fix` Branch:

- `git checkout hot\_fix`: Switched to `hot\_fix` branch.

## 3. Stage and Commit Changes:

- `git add .`: Staged all changes.
- `git status`: Checked status of staged changes.
- `git commit -m "hotfix added file"`: Committed changes with a message.

## 4. Push Changes to Remote:

- `git push origin hot\_fix`: Pushed `hot\_fix` branch to remote repository.

## 5. Merge Branches:

- `git checkout master`: Switched to `master` branch.
- `git checkout hot\_fix`: Switched back to `hot fix` branch.
- `git merge hot\_fix`: Merged `hot\_fix` into the current branch (no changes to merge).

