**Karthik Koparde**

**Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.**

**Created a repository named Practice**



**Added Text file(Hi.txt) in the repository Practice using the commands below**

```
Asus@KARTHIK MINGW64 /d/Demo
$ git init
Initialized empty Git repository in D:/Demo/.git/

Asus@KARTHIK MINGW64 /d/Demo (master)
$ git remote add origin https://github.com/Karthikoparde/Practice.git

Asus@KARTHIK MINGW64 /d/Demo (master)
$ git add .

Asus@KARTHIK MINGW64 /d/Demo (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Hi.txt


Asus@KARTHIK MINGW64 /d/Demo (master)
$ git commit -m "added a text file"
[master (root-commit) e7bec7a] added a text file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Hi.txt

Asus@KARTHIK MINGW64 /d/Demo (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 210 bytes | 105.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Karthikoparde/Practice.git
 * [new branch]      master -> master

Asus@KARTHIK MINGW64 /d/Demo (master)
$ |
```
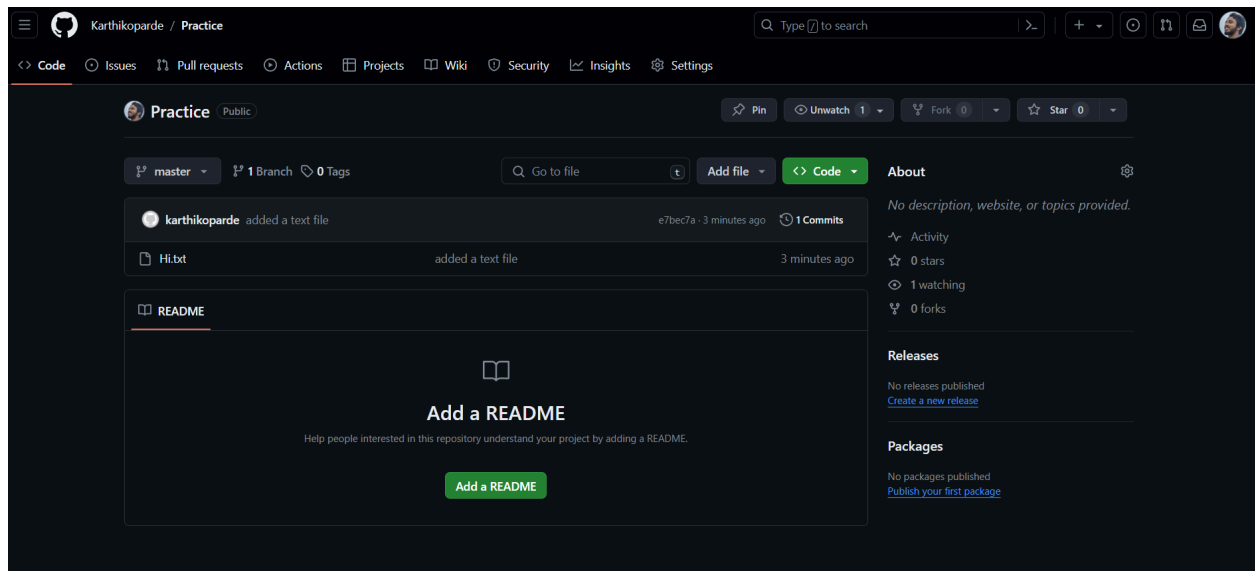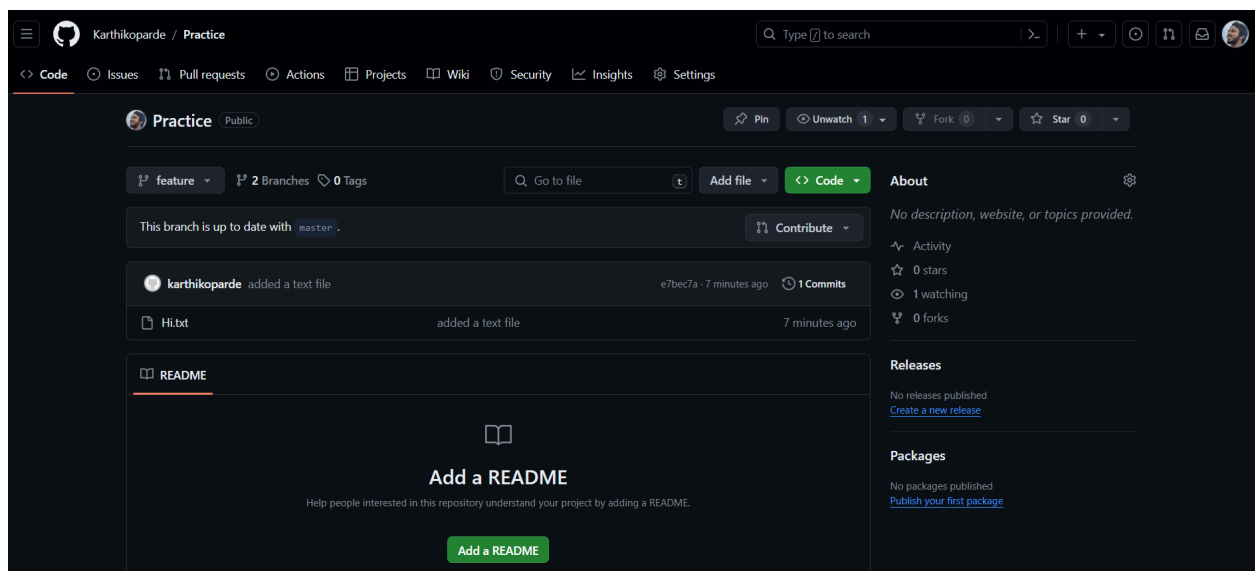
**Reflected file in the repository**



**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.**

**Created new branch feature, switched to it, and added a file from master to feature branch**

**Commands Used:**

```
Asus@KARTHIK MINGW64 /d/Demo (master)
$ git branch feature

Asus@KARTHIK MINGW64 /d/Demo (master)
$ git checkout feature
Switched to branch 'feature'

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git fetch

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git push origin feature
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:      https://github.com/Karthikoparde/Practice/pull/new/feature
remote:
To https://github.com/Karthikoparde/Practice.git
 * [new branch]      feature -> feature

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ |
```

## 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.**

## Adding a file USER in feature branch

```
Asus@KARTHIK MINGW64 /d/Demo (master)
$ git branch
  feature
  hotfix
* master

Asus@KARTHIK MINGW64 /d/Demo (master)
$ git checkout feature
Switched to branch 'feature'

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git add User.txt

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git status
On branch feature
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   User.txt


Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git commit -m "User data added"
[feature 1cf30ce] User data added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 User.txt

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git push origin feature
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 240 bytes | 240.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Karthikoparde/Practice.git
   e7bec7a..1cf30ce  feature -> feature

Asus@KARTHIK MINGW64 /d/Demo (feature)
$ |
```

**Adding a file PRODUCT in hotfix branch**

```
Asus@KARTHIK MINGW64 /d/Demo (feature)
$ git checkout hotfix
Switched to branch 'hotfix'

Asus@KARTHIK MINGW64 /d/Demo (hotfix)
$ git add Product.txt

Asus@KARTHIK MINGW64 /d/Demo (hotfix)
$ git status
On branch hotfix
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Product.txt


Asus@KARTHIK MINGW64 /d/Demo (hotfix)
$ git commit -m "Product data added"
[hotfix 9e8cee2] Product data added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Product.txt

Asus@KARTHIK MINGW64 /d/Demo (hotfix)
$ git push origin hotfix
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 242 bytes | 242.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:      https://github.com/Karthikoparde/Practice/pull/new/hotfix
remote:
To https://github.com/Karthikoparde/Practice.git
 * [new branch]      hotfix -> hotfix

Asus@KARTHIK MINGW64 /d/Demo (hotfix)
$ |
```

**Commands used for merging**

**$git checkout master**
**$git merge feature**
**$git merge hotfix**

**Approving pull requests**

**Approving merging of feature**



**Approving merging of hotfix**

# Merging both branches into master