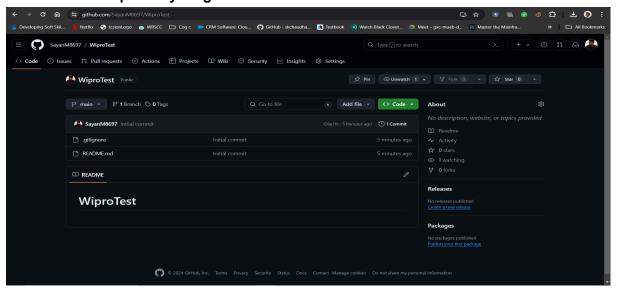
Assignment 1: Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

Ans)

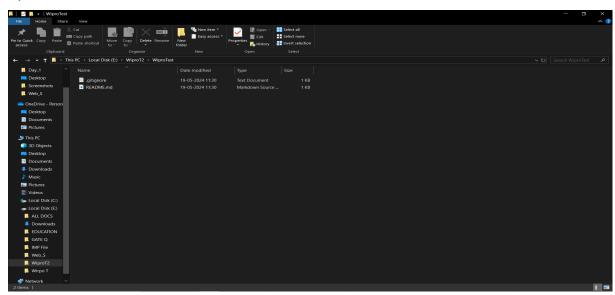
1. Make a 'Git repository' in git web:-



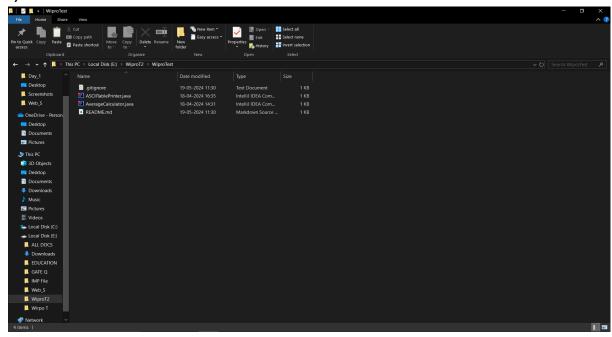
- 2. Going to the target file by Git bash in the local machine:
- i) And type git "init"
- ii) After that type "git clone (repo link)



3) Check whether the file is added or not:



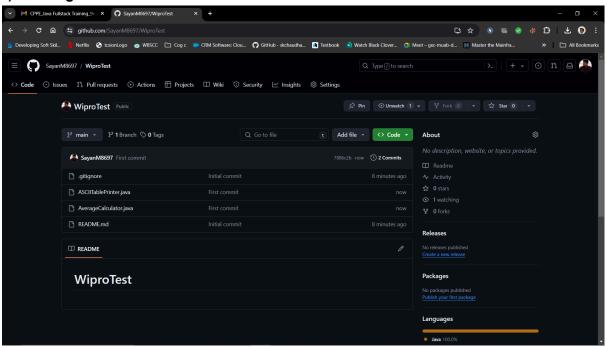
4) Add some files in that folder:



5) Now go to git bash and type "git status":

- i. Type 'git status'
- ii. Type 'git add .' (to add files to repo)
- iii. Type 'git status' again to check file added or not.
- Iv. if the tree is clean Type 'git commit -m "First commit:'
- V. And then type 'git Push' To push the update in the web git repo.

6) Check git web file is added or not:



Done.

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.

ANS)

1) Open Git bash create a branch:

Git branch feature

2) Check the file list:

Type "Is -I"

```
hp@sayan MINGW64 /e/WiproT2/WiproTest (feature)
$ ls \-|
total 6
-rw-r--r-- 1 hp 197121 306 Apr 18 16:35 ASCIITablePrinter.java
-rw-r--r-- 1 hp 197121 897 Apr 18 14:31 AverageCalculator.java
-rw-r--r-- 1 hp 197121 11 May 19 11:30 README.md
```

3) Commit that:

Type "git add."

Type "Git commit -m"First commit""

```
hp@Sayan MINGW64 /e/wiproT2/wiproTest (feature)
$ ls -l
total 7
-rw-r--r-- 1 hp 197121 306 Apr 18 16:35 ASCIITablePrinter.java
-rw-r--r-- 1 hp 197121 897 Apr 18 14:31 AverageCalculator.java
-rw-r--r-- 1 hp 197121 11 May 19 11:30 README.md
-rw-r--r-- 1 hp 197121 13 May 19 12:13 myfile.txt
hp@Sayan MINGW64 /e/wiproT2/wiproTest (feature)
$ git add .

hp@Sayan MINGW64 /e/wiproT2/wiproTest (feature)
$ git commit -m"First connit"
On branch feature
nothing to commit, working tree clean
```

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.

ANS)

- Create a branch called hotfix:
- Then go to that branch: "git checkout hotfix"
- See the files list: git Is-files

- Make some changes to that branch: code file name
- Add the changes: git add .
- The commit that: git committ -m"some changes"

```
hp@sayan MINGw64 /e/wiproT2/wiproTest (hotfix)
$ code AverageCalculator.java

hp@sayan MINGw64 /e/wiproT2/wiproTest (hotfix)
$ git add .

hp@sayan MINGw64 /e/wiproT2/wiproTest (hotfix)
$ git commit -m'Adding Some text'
[hotfix c4elb50] Adding Some text
1 file changed, 1 insertion(+), 1 deletion(-)

hp@sayan MINGw64 /e/wiproT2/wiproTest (hotfix)
$ |
```

See the change on the file.

· Check into main: git check out main

Merge the main with hotfix:

```
MnKWW64/e/WiproT2/WiproTest (main)
$ git merge hotfix
Updating 7886c2b..c4e1b50
Fast-forward
AverageCalculator.java | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
hp@Sayan MINGw64 /e/wiproT2/wiproTest (main)
$ code AverageCalculator.java
```

• See the change: