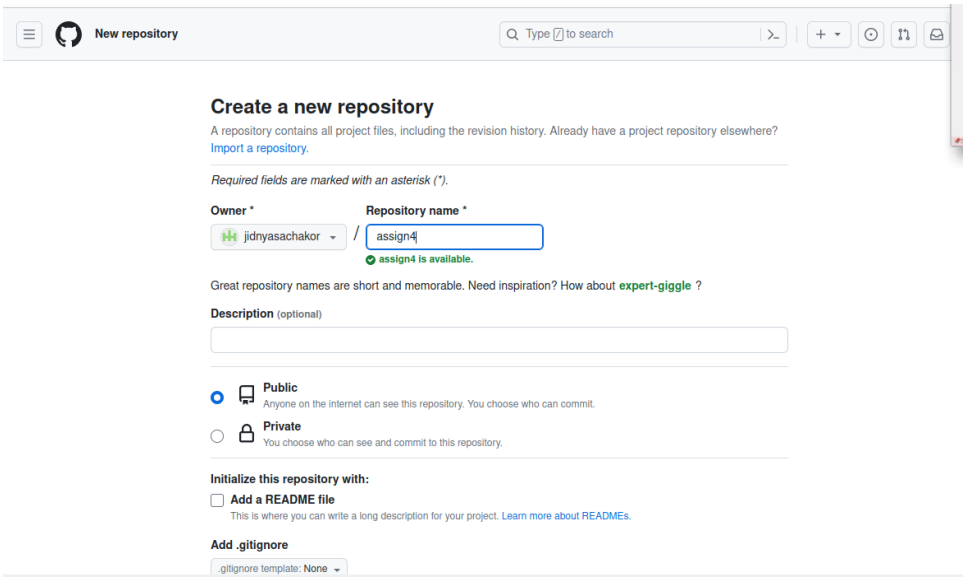
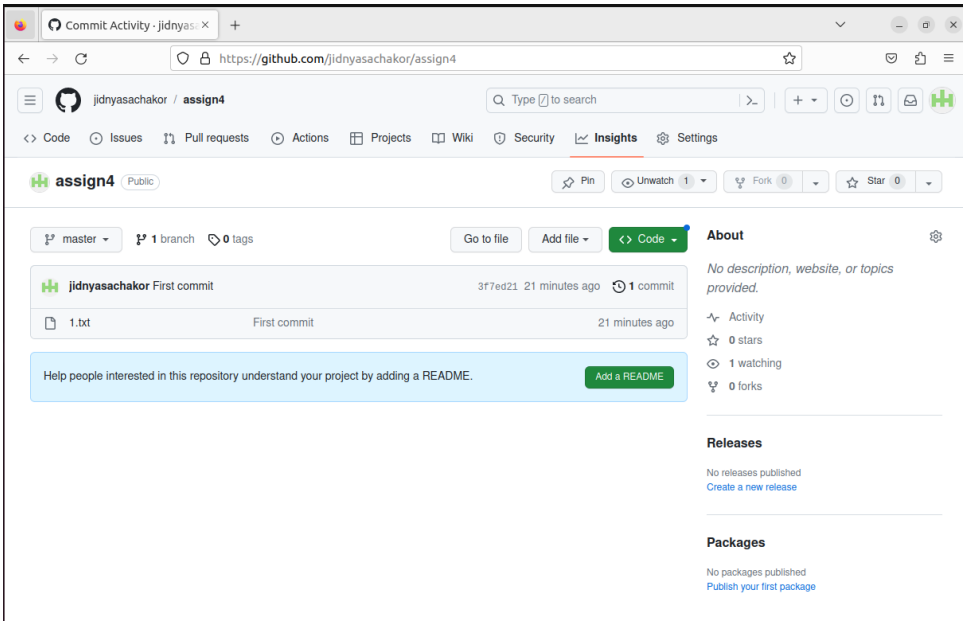
Assignment 4- Git commands

1. Create a Repository and do all the commands (git clone, git add, git commit, git push)




```
jidnyasa@jidnyasa:~/Desktop$ mkdir assgn4
jidnyasa@jidnyasa:~/Desktop$ cd assgn4
jidnyasa@jidnyasa:~/Desktop/assgn4$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/jidnyasa/Desktop/assgn4/.git/
jidnyasa@jidnyasa:~/Desktop/assgn4$ git remote add origin https://github.com/jidnyasachakor/assign4.git
jidnyasa@jidnyasa:~/Desktop/assgn4$ git clone https://github.com/jidnyasachakor/assign4.git
Cloning into 'assign4'...
warning: You appear to have cloned an empty repository.
jidnyasa@jidnyasa:~/Desktop/assgn4$ nano 1.txt
jidnyasa@jidnyasa:~/Desktop/assgn4$ git add 1.txt
jidnyasa@jidnyasa:~/Desktop/assgn4$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   1.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        assign4/

jidnyasa@jidnyasa:~/Desktop/assgn4$
```

```
jidnyasa@jidnyasa:~/Desktop/assgn4$ git commit -m "First commit"
[master (root-commit) 3f7ed21] First commit
 1 file changed, 3 insertions(+)
 create mode 100644 1.txt
jidnyasa@jidnyasa:~/Desktop/assgn4$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/jidnyasachakor/assign4.git'
jidnyasa@jidnyasa:~/Desktop/assgn4$ git push origin master
Username for 'https://github.com': jidnyasachakor
Password for 'https://jidnyasachakor@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 222 bytes | 222.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/jidnyasachakor/assign4.git
 * [new branch]      master -> master
jidnyasa@jidnyasa:~/Desktop/assgn4$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> master

jidnyasa@jidnyasa:~/Desktop/assgn4$ git log
commit 3f7ed21c12d3bf9e859cbcc12404c06aa45c6fa9 (HEAD -> master, origin/master)
Author: jidnyasachakor <jidnyasachakor@outlook.com>
Date:   Mon Sep 18 14:40:53 2023 +0530

    First commit
jidnyasa@jidnyasa:~/Desktop/assgn4$
```

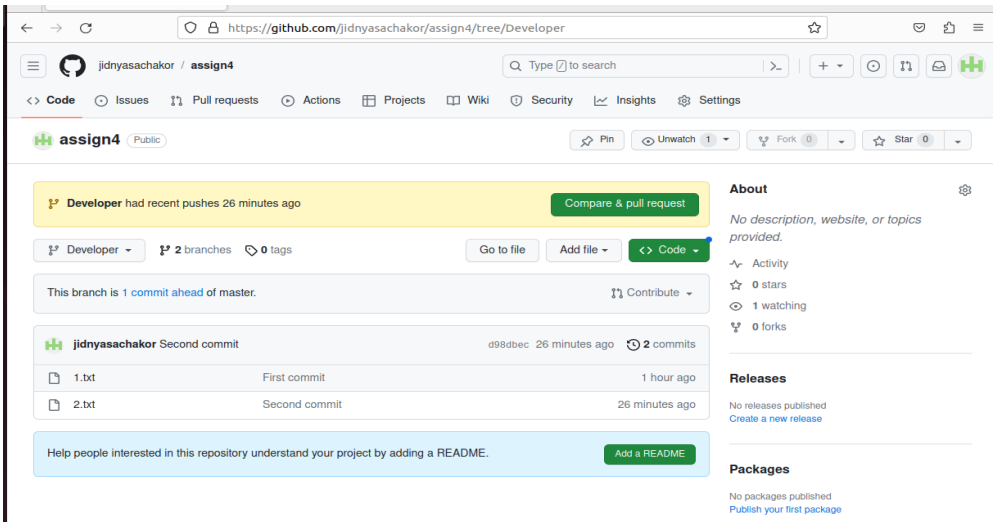
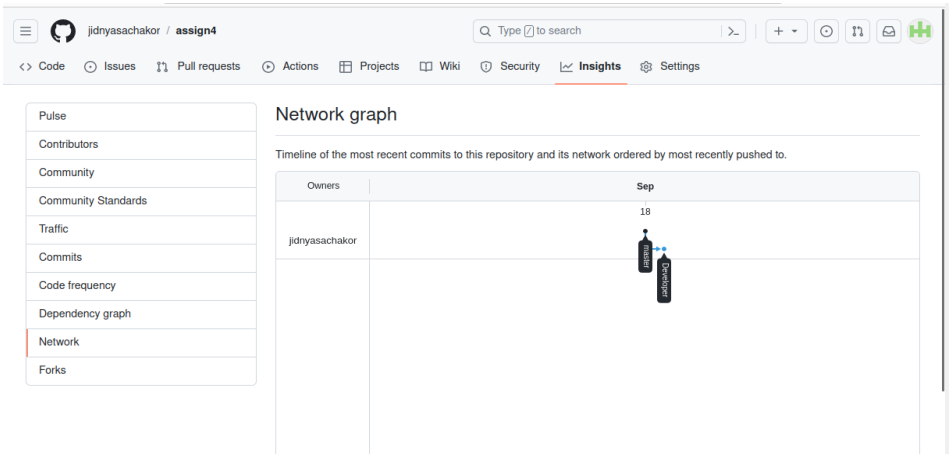


2. Show the difference between push and pull command.

Ans: Push command is used to move changes from the local repository to the remote, and to bring them to the local from the remote, we use pull command.

```
jidnyasa@jidnyasa:~/Desktop/assgn4$ git push origin master
Username for 'https://github.com': jidnyasachakor
Password for 'https://jidnyasachakor@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 222 bytes | 222.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/jidnyasachakor/assign4.git
 * [new branch]      master -> master
jidnyasa@jidnyasa:~/Desktop/assgn4$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> master
```

3. Create a new branch "Developer" and do all the commands.

```
jidnyasa@jidnyasa:~/Desktop/assgn4$ git branch Developer
jidnyasa@jidnyasa:~/Desktop/assgn4$ git log
commit 3f7ed21c12d3bf9e859cbcc12404c06aa45c6fa9 (HEAD -> master, origin/master, Developer)
Author: jidnyasachakor <jidnyasachakor@outlook.com>
Date:   Mon Sep 18 14:40:53 2023 +0530

    First commit
jidnyasa@jidnyasa:~/Desktop/assgn4$ git checkout Developer
Switched to branch 'Developer'
jidnyasa@jidnyasa:~/Desktop/assgn4$ git log
commit 3f7ed21c12d3bf9e859cbcc12404c06aa45c6fa9 (HEAD -> Developer, origin/master, master)
Author: jidnyasachakor <jidnyasachakor@outlook.com>
Date:   Mon Sep 18 14:40:53 2023 +0530

    First commit
jidnyasa@jidnyasa:~/Desktop/assgn4$ git merge Developer
Already up to date.
jidnyasa@jidnyasa:~/Desktop/assgn4$
```

```
    First commit
jidnyasa@jidnyasa:~/Desktop/assgn4$ nano 2.txt
jidnyasa@jidnyasa:~/Desktop/assgn4$ git merge Developer
Already up to date.
jidnyasa@jidnyasa:~/Desktop/assgn4$ git add 2.txt
jidnyasa@jidnyasa:~/Desktop/assgn4$ git status
On branch Developer
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        assign4/

jidnyasa@jidnyasa:~/Desktop/assgn4$ git commit -m "Second commit"
[Developer d98dbec] Second commit
 1 file changed, 2 insertions(+)
 create mode 100644 2.txt
jidnyasa@jidnyasa:~/Desktop/assgn4$ git push origin Developer
Username for 'https://github.com': jidnyasachakor
Password for 'https://jidnyasachakor@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 276 bytes | 138.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'Developer' on GitHub by visiting:
remote:      https://github.com/jidnyasachakor/assign4/pull/new/Developer
remote:
To https://github.com/jidnyasachakor/assign4.git
 * [new branch]      Developer -> Developer
jidnyasa@jidnyasa:~/Desktop/assgn4$
```