Task 1.1: Create a normal folder in your local system.
Task 1.2: Convert it in the git working directory. - Command Screenshot

```
dore@Reees-Macbook Devops % mkdir git-task
dore@Reees-Macbook Devops % cd git-task
dore@Reees-Macbook git-task % git init
Initialized empty Git repository in /Users/dore/Desktop/Devops/git-task/.git/
dore@Reees-Macbook git-task %
```

Task 1.3: Add any files in the working directory.
Task 1.4: Shift those files in the staging area - Command Screenshot
If required -Set Git Global name and email as required. Use email by which you can Login in your GitHub Account

```
dore@Reees-Macbook git-task % git status
On branch main

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
dore@Reees-Macbook git-task % git add .
dore@Reees-Macbook git-task % git status
On branch main

No commits yet

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

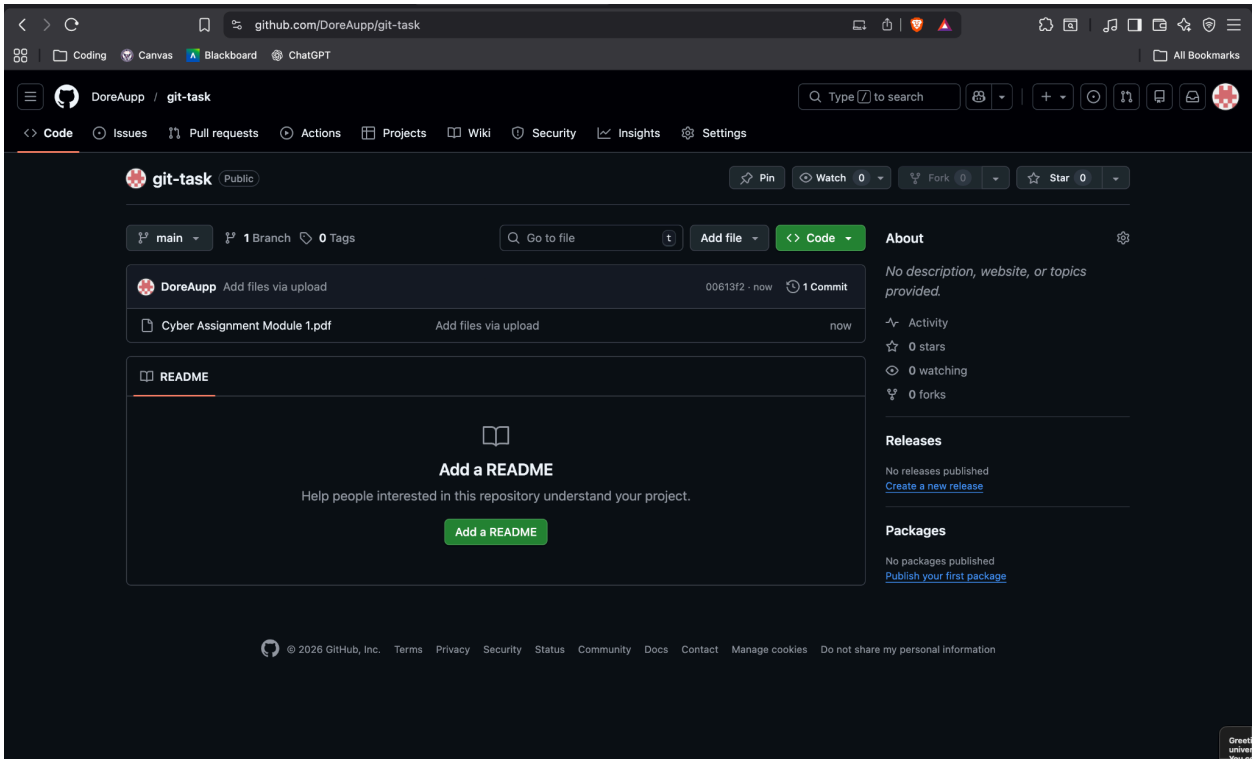
Task 1.5: Shift those files to the Local repository - Command Screenshot

```
dore@Reees-Macbook git-task % git commit -m "Initial commit"
[main (root-commit) 6439870] Initial commit
 2 files changed, 2 insertions(+)
 create mode 100644 notes.txt
 create mode 100644 readme.txt
dore@Reees-Macbook git-task %
```

Task 1.6: Check and show by default in which branch files are added? Command / Output Screenshot

```
dore@Reees-Macbook git-task % git branch
* main
```

Task 2.1: Create a repository in GitHub giving the same/different name as your local repository.
Task 2.2: Upload any different files in it
Task 2.3: Show by default in which branch files are added? Screenshot



Question 1: In this moment, without configuring anything is it possible to push local git repository to the GitHub repository? If no what things we need to do to resolve the issue - Answer / Command Screenshot

Ans Without any configuration, it is not possible to push from local to Github. We should first link the remote URL of the repository.

Solution

```
dore@Reees-Macbook git-task % ssh -T git@github.com
Hi DoreAupp! You've successfully authenticated, but GitHub does not provide shell access.
dore@Reees-Macbook git-task % git remote add origin git@github.com:DoreAupp/git-task.git
dore@Reees-Macbook git-task % git remote -v
origin  git@github.com:DoreAupp/git-task.git (fetch)
origin  git@github.com:DoreAupp/git-task.git (push)
dore@Reees-Macbook git-task %
```

Question 2: After resolving the issue, if you push your repository in the GitHub, by default it will merge with main or will create another branch? Answer / Command Screenshot

Ans

Since I have changed the default name from master to main, it will merge.

Solution

```
dore@Reees-Macbook git-task % git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 11 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 595 bytes | 595.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:DoreAupp/git-task.git
   00613f2..f6b8ae5  main -> main
branch 'main' set up to track 'origin/main'.
dore@Reees-Macbook git-task % git branch
* main
dore@Reees-Macbook git-task %
```

Question 3: Is it possible to change your local repository branch name from master to main? If yes, do it then check branch name. Screenshot

Ans

I have already changed the settings. So it will always be main.

Question 4: After change the branch name as main, is it possible to push the code in the GitHub and that files will merge in the main branch? Answer / Screenshot

Ans Yes, it will merge. However If GitHub main already has commits you don't have locally you must pull first.

Solution

Use git pull origin main --allow-unrelated-histories

And then push again.

Task 3.1: Clone your GitHub Repository Command / Output Screenshot

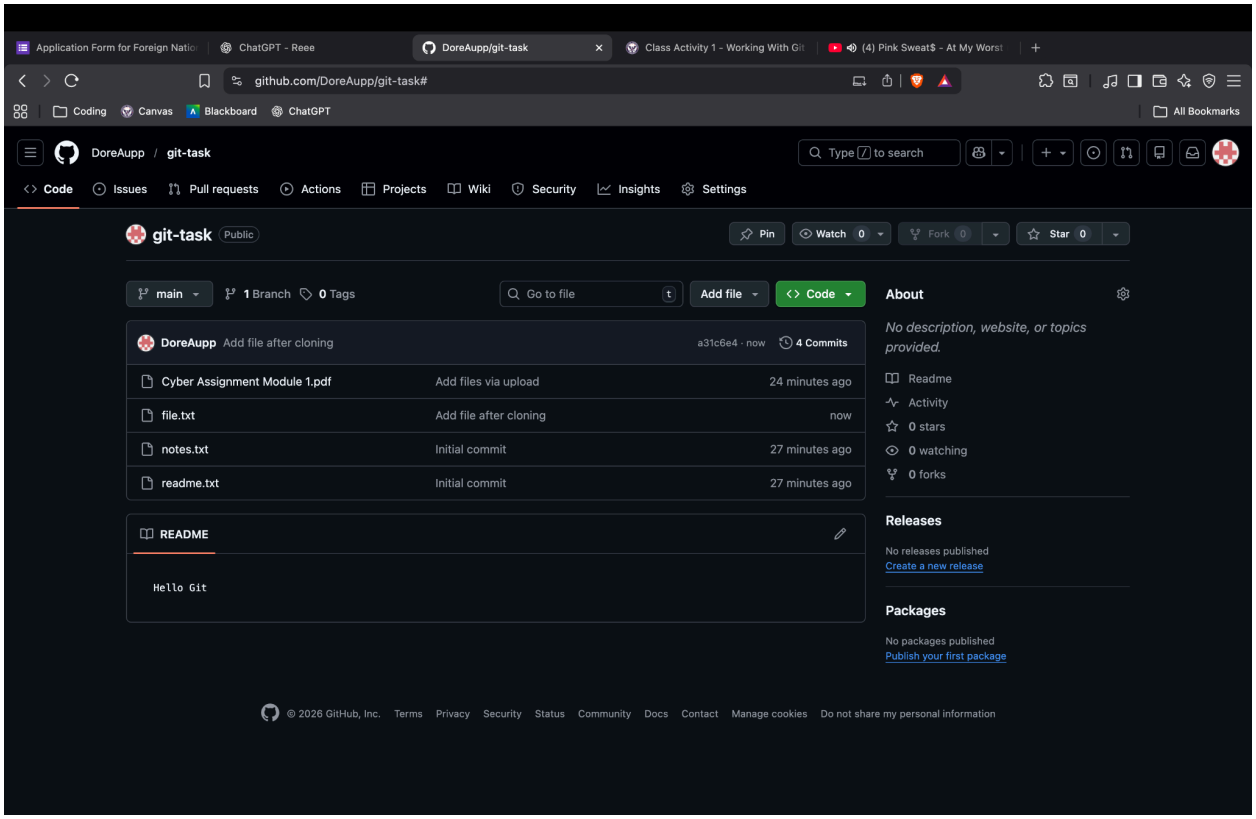
```
dore@Reees-Macbook Devops2 % git clone git@github.com:DoreAupp/git-task.git
Cloning into 'git-task'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 9 (delta 1), reused 6 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), 3.15 MiB | 2.25 MiB/s, done.
Resolving deltas: 100% (1/1), done.
dore@Reees-Macbook Devops2 %
```

Task 3.2: Add new files in that Cloned working directory

Task 3.3. Do the needful to transfer your file from the working directory to the local repository.

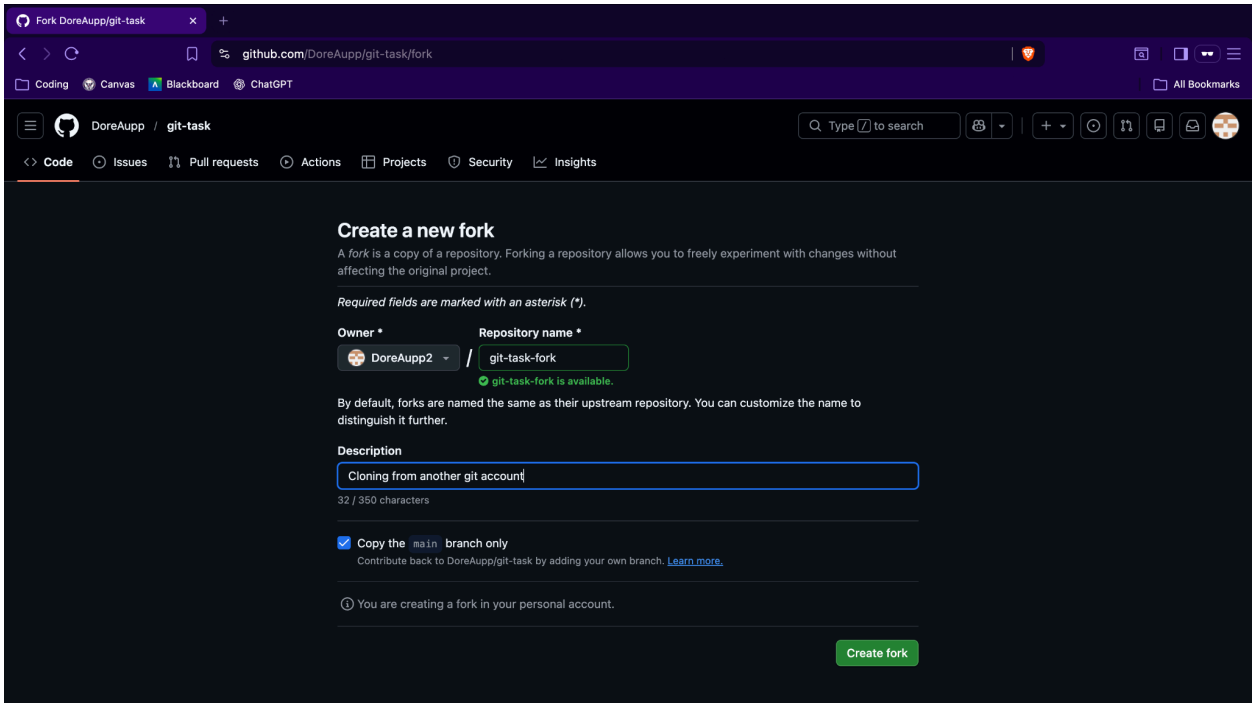
Task 3.4: Push your local repository to the GitHub repository.

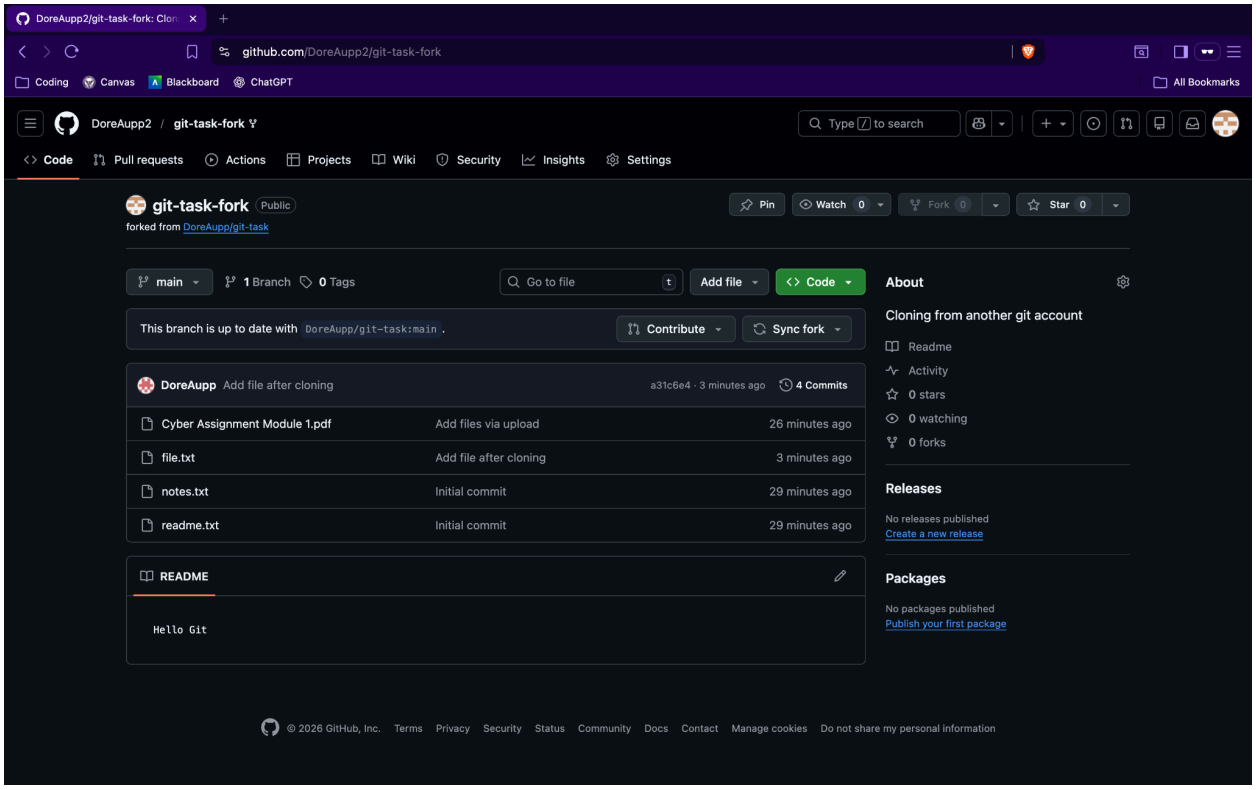
Task 3.5: Check in your GitHub repository whether the new files are added or not. Screenshot



Ans Yes, I added a new file.txt and pushed it. It can be seen in the Github repository.

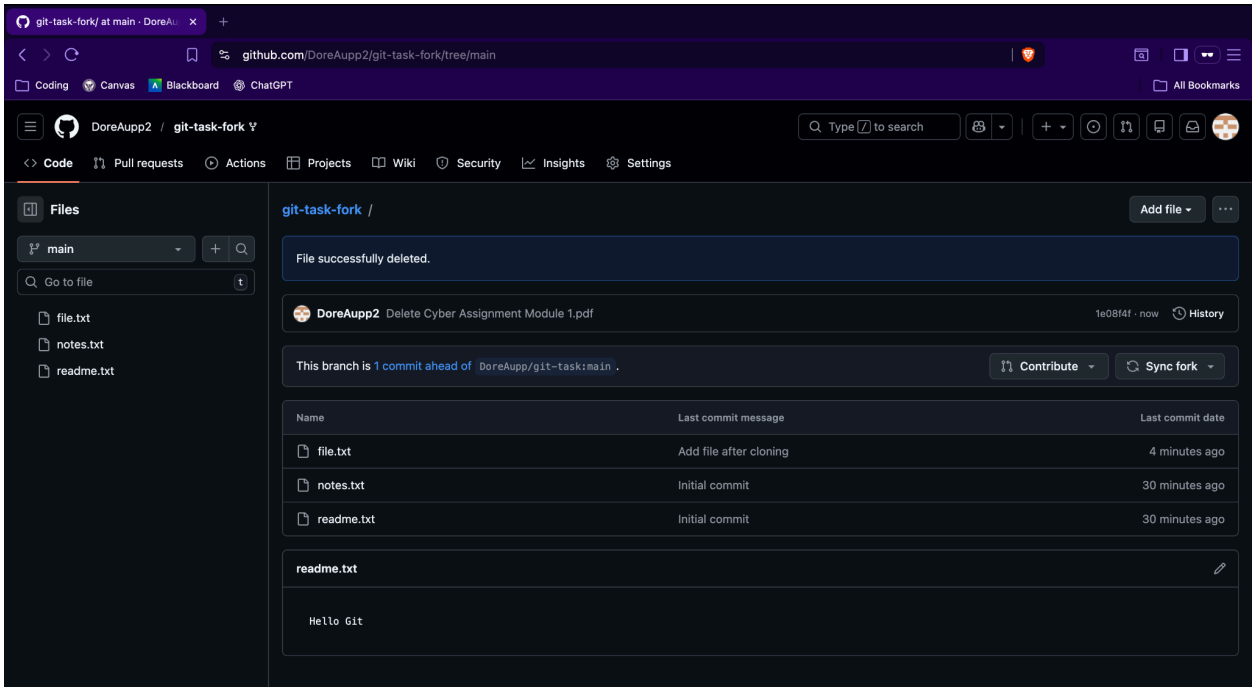
Task 4.1: Copy the same GitHub repository from One Account to the Other Account - Screenshot

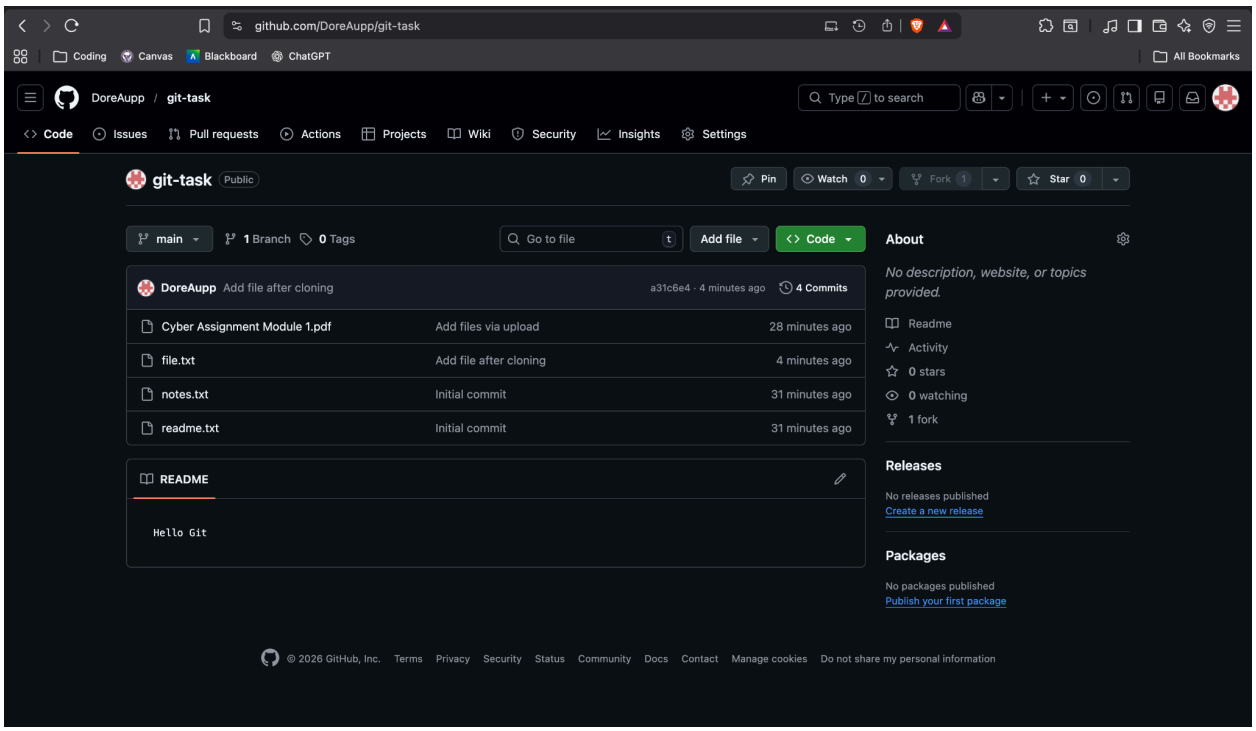




Question 5: After copy if you change, update anything in your copied repository, Is there any effect on the original repository? Answer / Screenshot

Ans No any changes to the cloned repository will not affect the original repository.





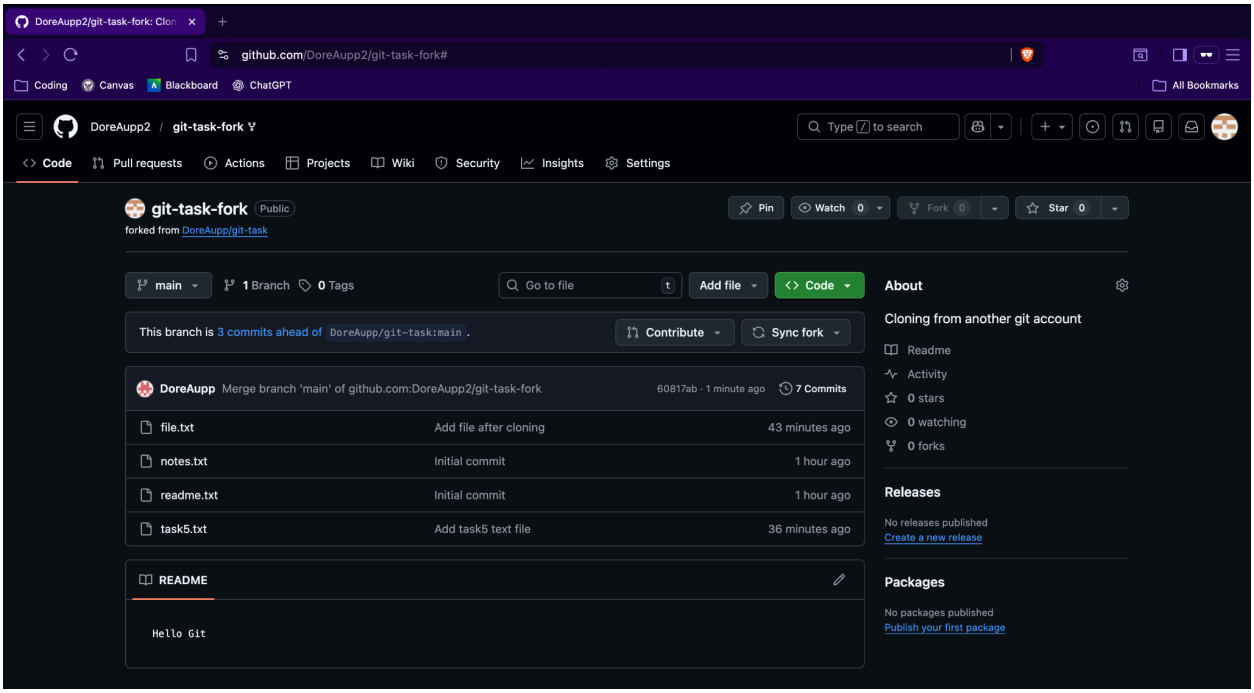
Remark: As it can be seen, I've deleted the file named "Cyber Assignment Module 1.pdf" from the cloned repository, however that file still remains in the original repository.

Task 5.1: Add 1 new file in your local working directory (previously cloned repository) and shift it to local repository.
Question 6: Without changing any configuration settings, is it possible to push the local repository to the GitHub copied repository? If yes, do it. If no resolve issue and then Push. Answer/Screenshot.

Ans No, that is not possible. Since the repository that your Git remote is connected to is still the previous repository (the original one). Thus, we have to re-route it to the new cloned repository and only then can we push it.

```
dore@Reees-Macbook git-task % ssh -T git@github.com-doreaupp2
Hi DoreAupp2! You've successfully authenticated, but GitHub does not provide shell access.
```

```
dore@Reees-Macbook git-task % git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 11 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 517 bytes | 517.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:DoreAupp2/git-task-fork.git
   1e08f4f..60817ab  main -> main
branch 'main' set up to track 'origin/main'.
```



Note: After configuration, I now can push the new file named “task5.txt” to the cloned repository