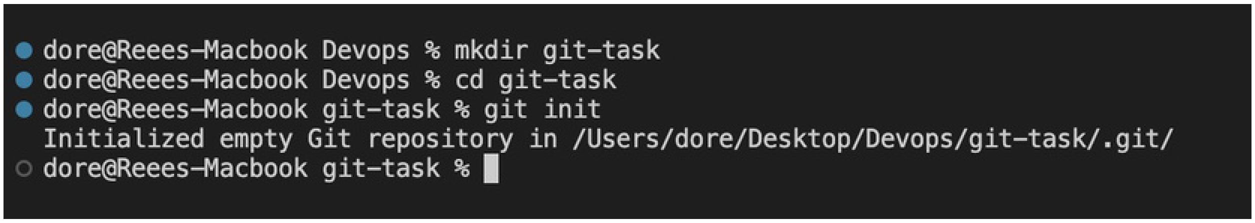
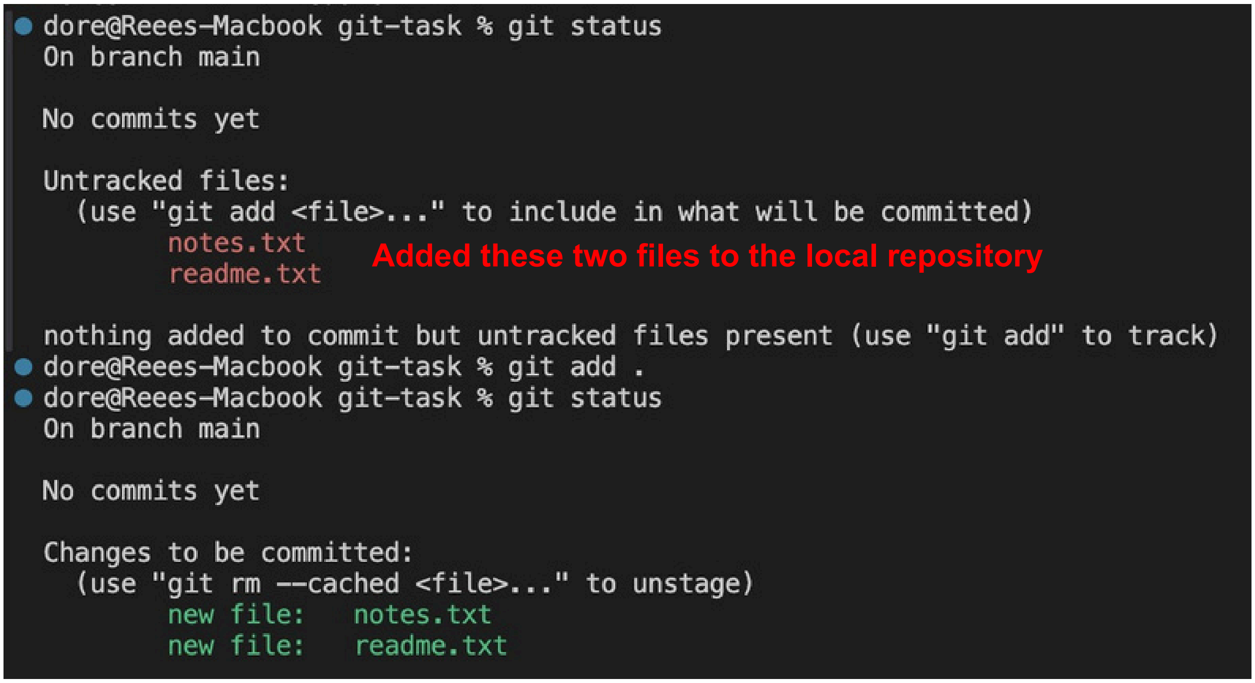
Task 1.1: Create a normal folder in your local system.
Task 1.2: Convert it in the git working directory. - Command Screenshot



```
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 %
```

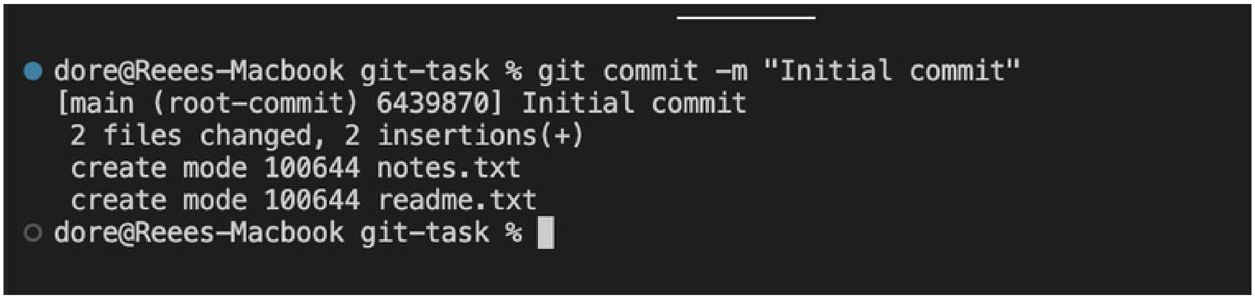
Task 1.3: Add any files in the working directory.
Task 1.4: Shift those files in the staging area - Command Screenshot
If required -Set Git Global name and email as required. Use email by which you can Login in your GitHub Account



```
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
```

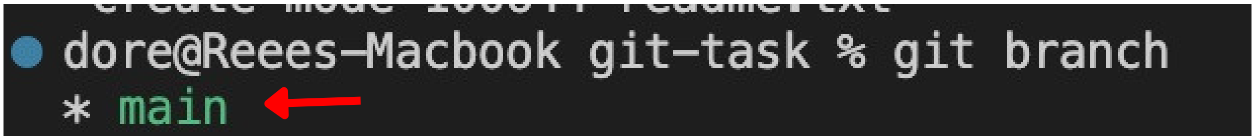
Added these two files to the local repository

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

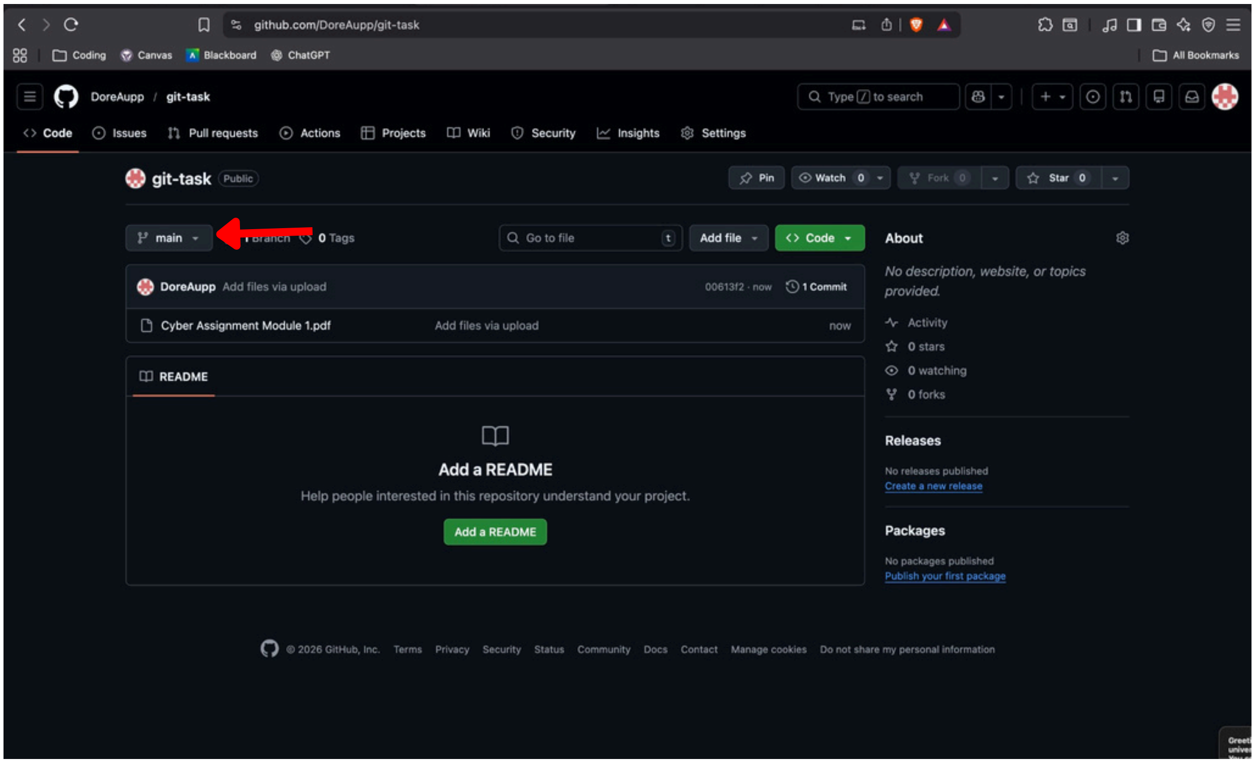


```
 create mode 100644 readme.txt
● dore@Reees-Macbook git-task % git branch
  * main
```

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



DoreAupp Add files via upload 00613f2 · now 1 Commit

Cyber Assignment Module 1.pdf Add files via upload now

No description, website, or topics provided.

No releases published

Create a new release

No packages published

Publish your first package

Add a README

Help people interested in this repository understand your project.

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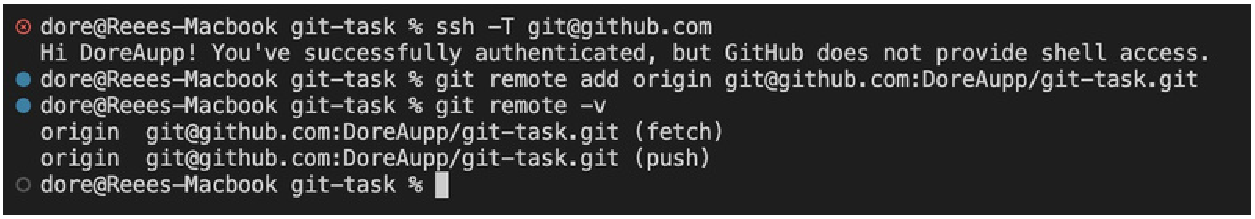
Question 1: In this moment, without configuring anything is it possible to push local git repository to the GitHub repository? If no what things we need to do to resolve the issue - Answer / Command Screenshot

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

Solution

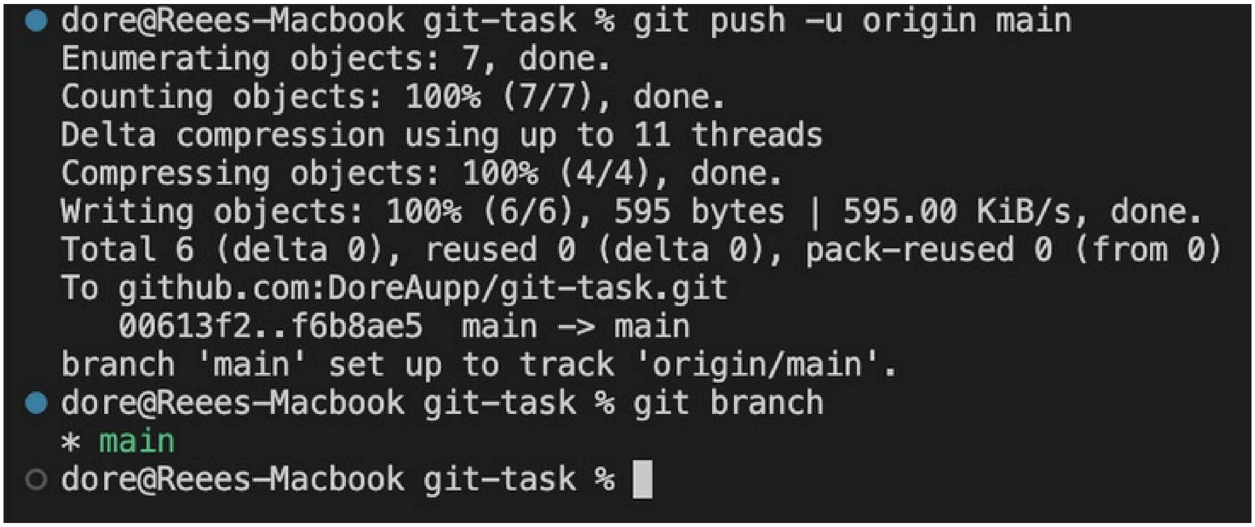


```
⊗ dore@Reees-Macbook git-task % ssh -T git@github.com
  Hi DoreAupp! You've successfully authenticated, but GitHub does not provide shell access.
● dore@Reees-Macbook git-task % git remote add origin git@github.com:DoreAupp/git-task.git
● dore@Reees-Macbook git-task % git remote -v
  origin  git@github.com:DoreAupp/git-task.git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

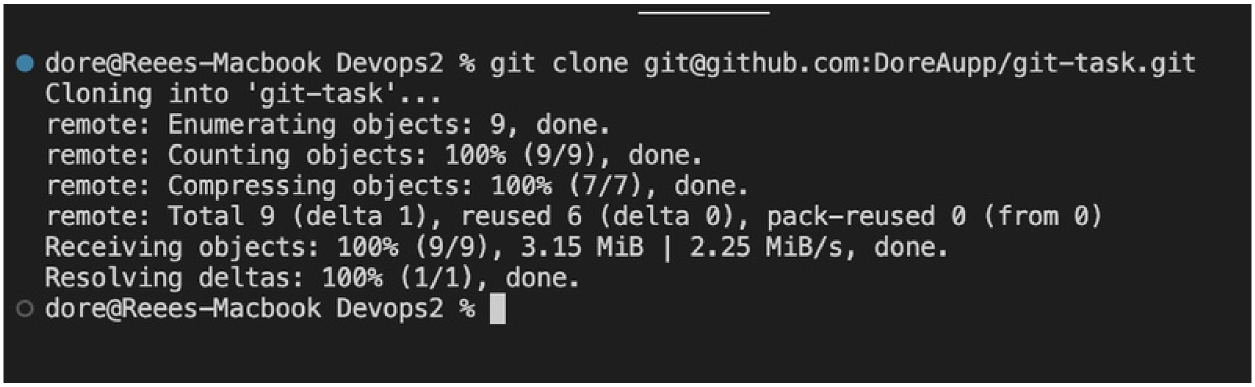
Ans Yes, it will merge. However If GitHub main already has commits you don't have locally you must pull first.

Solution

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

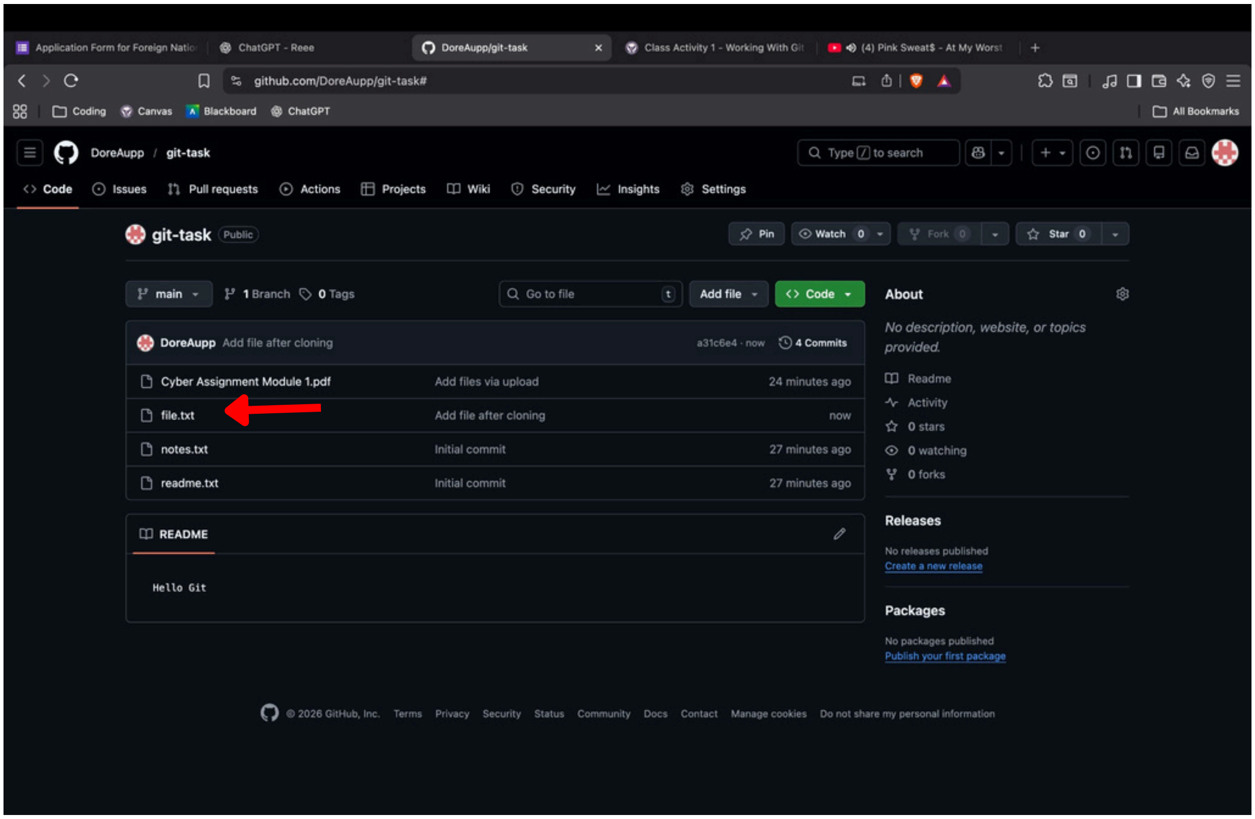
And then push again.

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



DoreAupp Add file after cloning a31c6e4 · now 4 Commits

Cyber Assignment Module 1.pdf	Add files via upload	24 minutes ago
file.txt	Add file after cloning	now
notes.txt	Initial commit	27 minutes ago
readme.txt	Initial commit	27 minutes ago

README

```
Hello Git
```

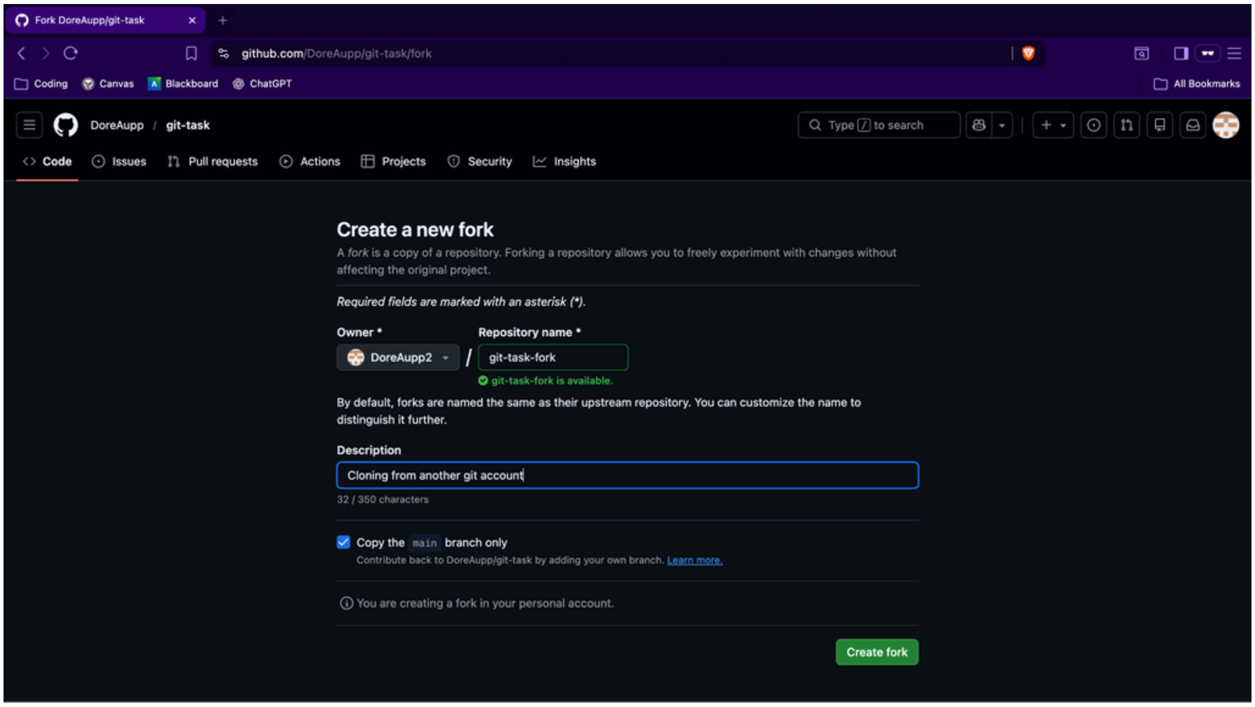
No description, website, or topics provided.

No releases published

No packages published

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



Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.

Required fields are marked with an asterisk (*).

Owner * : DoreAupp2 / Repository name * : git-task-fork

git-task-fork is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

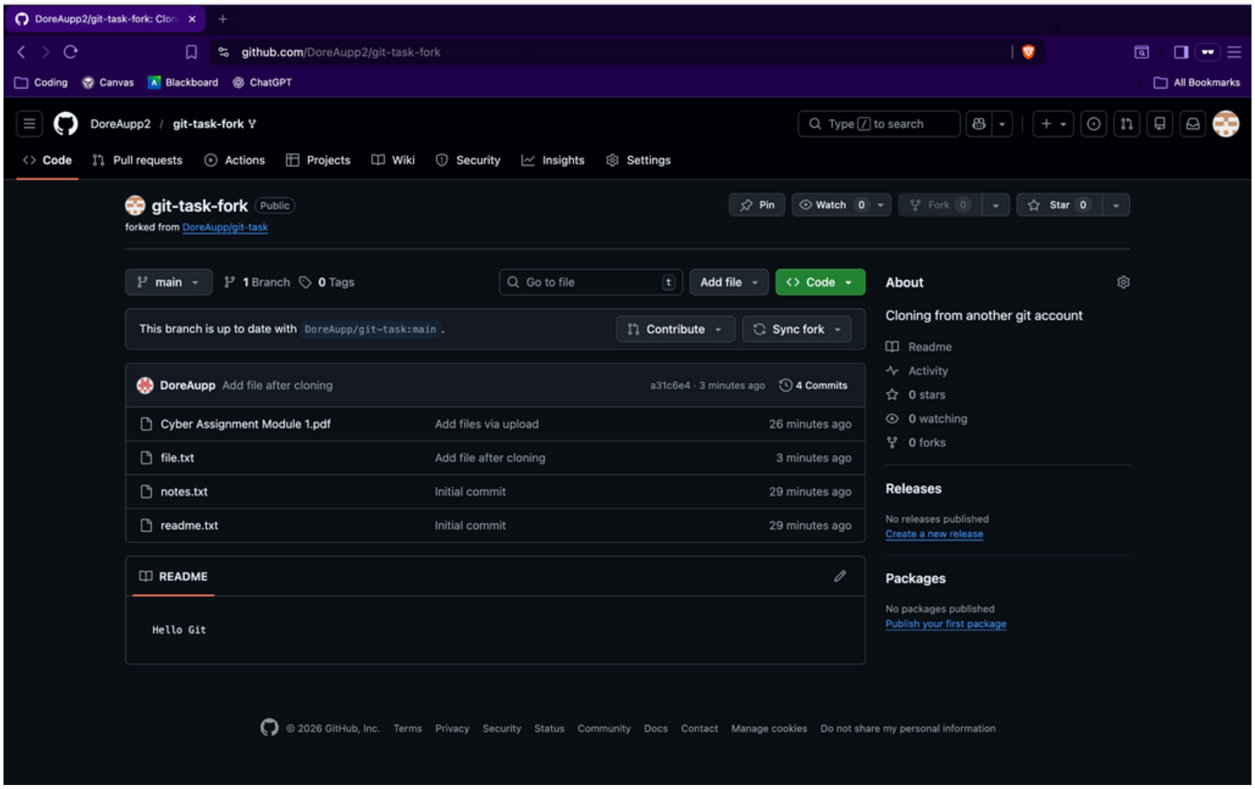
Description: Cloning from another git account

32 / 350 characters

☑ Copy the `main` branch only

Contribute back to DoreAupp/git-task by adding your own branch. Learn more.

You are creating a fork in your personal account.



git-task-fork Public

forked from DoreAupp/git-task

This branch is up to date with `DoreAupp/git-task:main` .

DoreAupp Add file after cloning a31c6e4 · 3 minutes ago 4 Commits

Cyber Assignment Module 1.pdf	Add files via upload	26 minutes ago
file.txt	Add file after cloning	3 minutes ago
notes.txt	Initial commit	29 minutes ago
readme.txt	Initial commit	29 minutes ago

```
Hello Git
```

About

Cloning from another git account

Releases

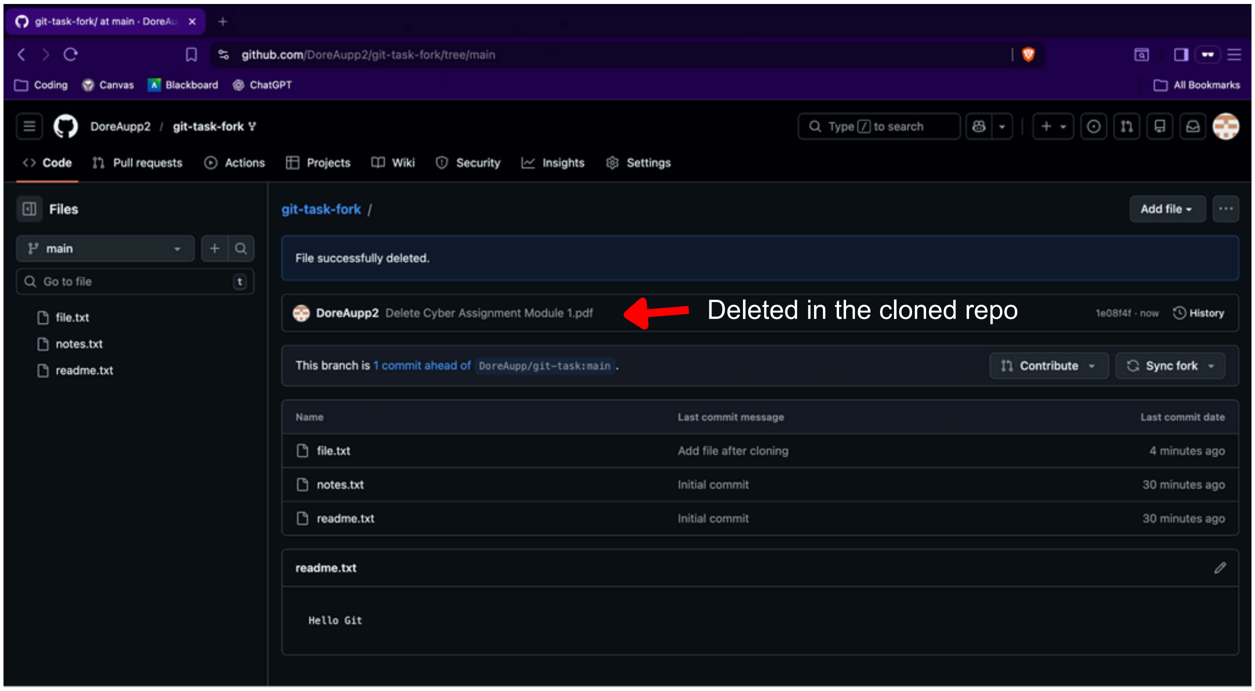
No releases published
Create a new release

Packages

No packages published
Publish your first package

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.



File successfully deleted.

DoreAupp2 Delete Cyber Assignment Module 1.pdf 1e08f4f · now

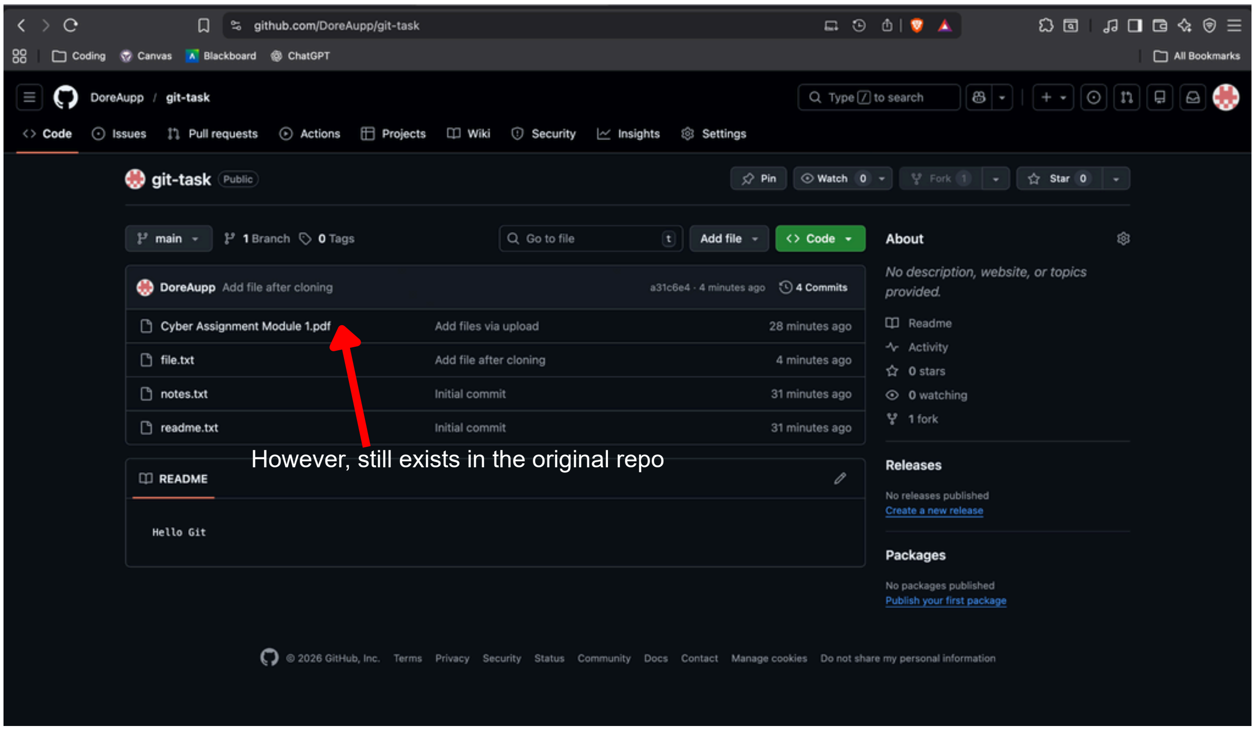
Deleted in the cloned repo

This branch is 1 commit ahead of `DoreAupp/git-task:main` .

Name	Last commit message	Last commit date
file.txt	Add file after cloning	4 minutes ago
notes.txt	Initial commit	30 minutes ago
readme.txt	Initial commit	30 minutes ago

readme.txt

```
Hello Git
```



DoreAupp Add file after cloning a31c6e4 · 4 minutes ago 4 Commits

Cyber Assignment Module 1.pdf	Add files via upload	28 minutes ago
file.txt	Add file after cloning	4 minutes ago
notes.txt	Initial commit	31 minutes ago
readme.txt	Initial commit	31 minutes ago

However, still exists in the original repo

```
Hello Git
```

About

No description, website, or topics provided.

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

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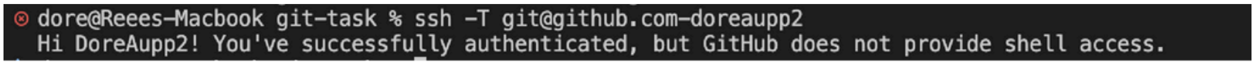
Notes: As it can be seen, I've deleted the file named "Cyber Assignment Module 1.pdf" from the cloned repository, however that file still remains in the original repository.

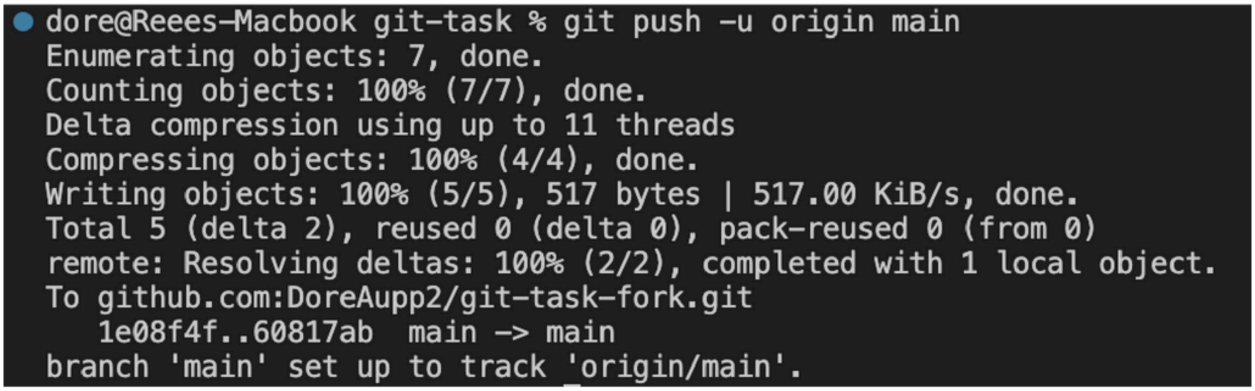
Task 5.1: Add 1 new file in your local working directory (previously cloned repository) and shift it to local repository.
Question 6: Without changing any configuration settings, is it possible to push the local repository to the GitHub copied repository? If yes, do it. If no resolve issue and then Push.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

Ans

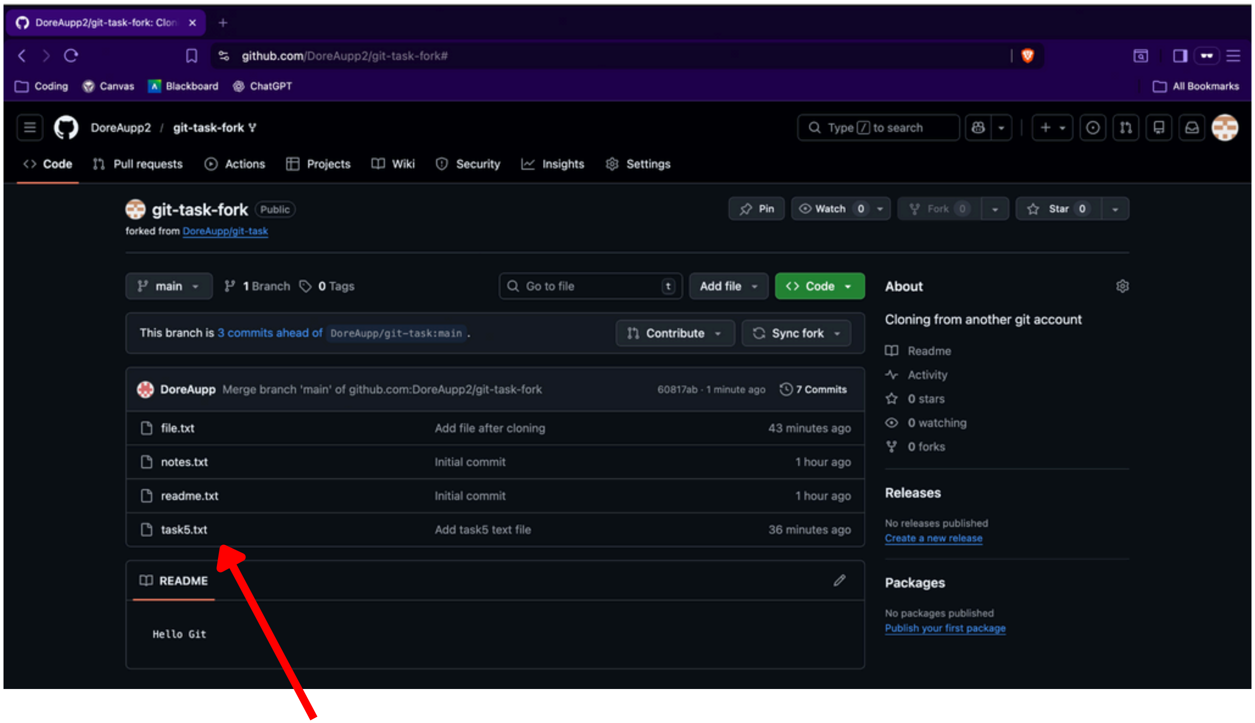
No, that is not possible.Since the repository that your Git remote is still connected to the previous repository (the original one). Thus, we have to re-route it to the new cloned repository and only then can we push it.



```
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'.
```



git-task-fork Public
forked from DoreAupp/git-task

This branch is 3 commits ahead of DoreAupp/git-task:main .

DoreAupp Merge branch 'main' of github.com:DoreAupp2/git-task-fork 60817ab · 1 minute ago 7 Commits

file.txt	Add file after cloning	43 minutes ago
notes.txt	Initial commit	1 hour ago
readme.txt	Initial commit	1 hour ago
task5.txt	Add task5 text file	36 minutes ago

Hello Git

About
Cloning from another git account
Readme
Activity
0 stars
0 watching
0 forks

No releases published
Create a new release

No packages published
Publish your first package

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