28.4 Git overview: Homework

1. Create a public remote repository on github.com
2. Clone you repository using git CLI.
3. Using git CLI, in 'main' branch:
   1. Create 'index.html' file with any content in it and commit it
   2. Change the content of the file one or more times so that the file has a history
4. Using git CLI, in 'develop' branch create files:

   a. README.md with the following content:

Hello, world!

   b. LICENCE.md with the following content:

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SOFTWARE.

4. Merge 'develop' into 'main' using merge command

5. Push local changes to the remote repository

In your homework submission:

- provide the link to your public repository.

- provide console log (including your input and output)

Make sure you provide a meaningful commit message for each of your commits

1. **Create a public remote repository on github.com**
   https://github.com/NinaKhaytovich/Mentorpiece

2. Clone you repository using git CLI.

I've started from creating directory on my PC, then cloned repository:

ninakhaytovich@Ninas-MacBook-Pro HW_Git % git clone

git@github.com:NinaKhaytovich/Mentorpiece.git

Cloning into 'Mentorpiece'...

remote: Enumerating objects: 6, done.

remote: Counting objects: 100% (6/6), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0

Receiving objects: 100% (6/6), done.

3. Using git CLI, in 'main' branch:

Here I've checked that I am in 'main' branch:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git status

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

3.1.Create 'index.html' file with any content in it and commit it

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % echo 'Hello, beautiful world!' >

index.html

Added created file to staging:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add .

Commited a file with comment:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 3.1, commiting

just created file'

[main 46327c4] Task 3.1, commiting just created file

 1 file changed, 1 insertion(+)

 create mode 100644 index.html

Pushed

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

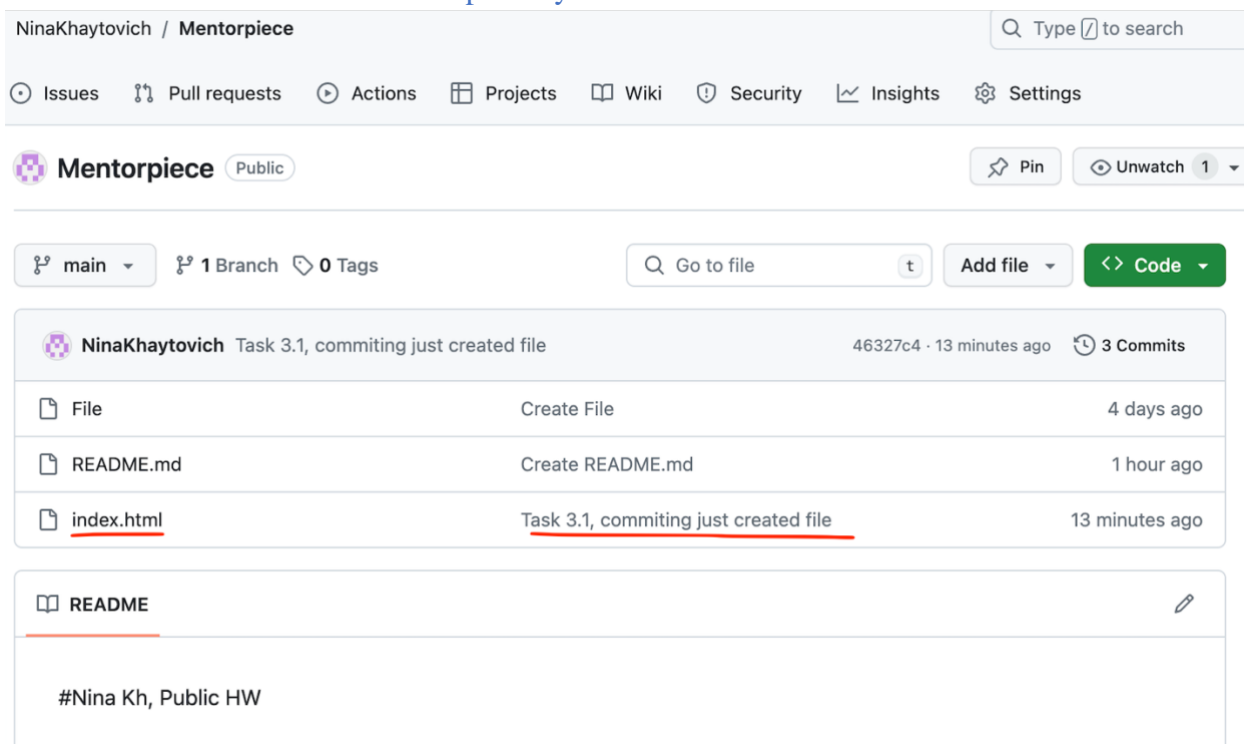Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 352 bytes | 352.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:NinaKhaytovich/Mentorpiece.git

  4b8882f..46327c4 main -> main

Here we can see a file in repository:

3.2. Change the content of the file one or more times so that the file has a history

Here I've changed a file:

  ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % nano index.html

Added file to staging:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add .

Commited a file with comment:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 3.2. Changing

the content'

[main de90e0d] Task 3.2. Changing the content

1 file changed, 1 insertion(+)

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads
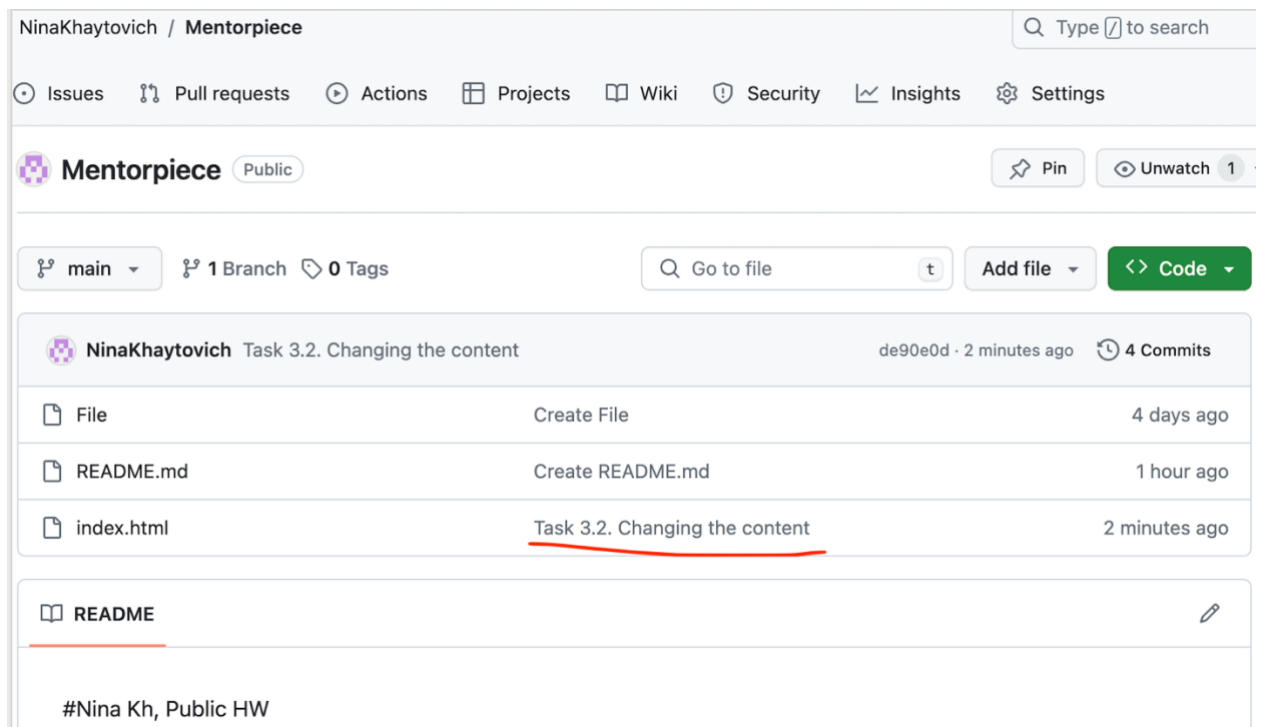
Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.

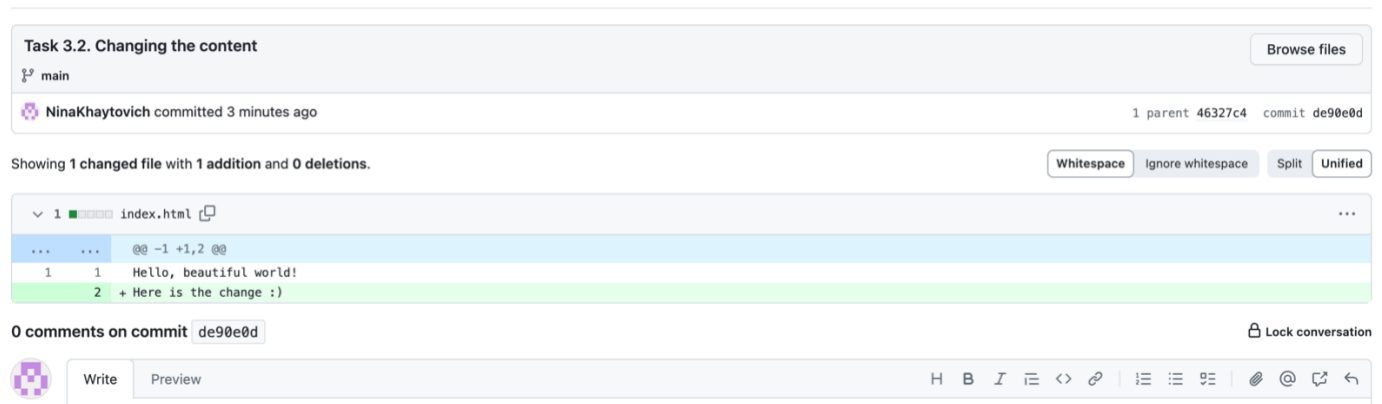Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To github.com:NinaKhaytovich/Mentorpiece.git

46327c4..de90e0d main -> main

| NinaKhaytovich / **Mentorpiece** | | Q Type / to search |

| ⊙ Issues | ⇅ Pull requests | ⊙ Actions | ⊞ Projects | 📖 Wiki | ⊙ Security | ∿ Insights | ⚙ Settings |

🔷 **Mentorpiece** (Public)   ✄ Pin   👁 Unwatch 1

| ⌥ main ▾ | ⌥ **1** Branch ⟡ **0** Tags | Q Go to file | t | Add file ▾ | <> Code ▾ |

| 🔷 **NinaKhaytovich** Task 3.2. Changing the content | de90e0d · 2 minutes ago | 🕐 **4 Commits** |

🗋 File	Create File	4 days ago
🗋 README.md	Create README.md	1 hour ago
🗋 index.html	Task 3.2. Changing the content	2 minutes ago

📖 README   ✎

#Nina Kh, Public HW

Commit

Task 3.2. Changing the content   Browse files

⌥ main

🔷 NinaKhaytovich committed 3 minutes ago   1 parent 46327c4 commit de90e0d

Showing **1 changed file** with **1 addition** and **0 deletions**.   Whitespace Ignore whitespace Split Unified

∨ 1 ■□□□□ index.html ⎘	...
... ...	@@ -1 +1,2 @@
1 1	Hello, beautiful world!
2	+ Here is the change :)

0 comments on commit de90e0d   🔒 Lock conversation

| 🔷 | Write Preview   H B I ⌘ <> 𝒫 | ☰ ☰ 𝄞 | ⎘ @ ✄ ↩ |

4. Using git CLI, in 'develop' branch create files:

Here I've created and switched on branch 'develop'

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git branch develop

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git status

On branch main

Your branch is ahead of 'origin/main' by 2 commits.

  (use "git push" to publish your local commits)

nothing to commit, working tree clean

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git checkout develop

Switched to branch 'develop'

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git status

On branch develop

nothing to commit, working tree clean

a. README.md with the following content:

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % echo 'Hello, world!' > README.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add README.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 4.a'

[develop d9a2b28] Task 4.a

 1 file changed, 1 insertion(+), 1 deletion(-)

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 323 bytes | 323.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'develop' on GitHub by visiting:

remote: https://github.com/NinaKhaytovich/Mentorpiece/pull/new/develop

remote:

To github.com:NinaKhaytovich/Mentorpiece.git

 * [new branch]   develop -> develop

b. LICENCE.md with the following content:

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echo 'copyright (c) <year> <copyright holders>

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FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS

IN THE

SOFTWARE.' > LICENCE.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git add LICENCE.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git commit -m 'Task 4.b'

[develop 1fa39c7] Task 4.b

 1 file changed, 19 insertions(+)

 create mode 100644 LICENCE.md

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 958 bytes | 958.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:NinaKhaytovich/Mentorpiece.git

   d9a2b28..1fa39c7 develop -> develop

5. Merge 'develop' into 'main' using merge command

Here I switched from branch 'develop' to 'main':

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git branch

* develop

  main

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

  (use "git push" to publish your local commits)

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git branch

  develop

* main

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git merge -m 'Task 5 - merge develop into main' develop

Updating de90e0d..1fa39c7

Fast-forward (no commit created; -m option ignored)

 LICENCE.md | 19 ++++++++++++++++++

 README.md | 2 +-

 2 files changed, 20 insertions(+), 1 deletion(-)

create mode 100644 LICENCE.md

6. Push local changes to the remote repository

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

To github.com:NinaKhaytovich/Mentorpiece.git

  de90e0d..1fa39c7 main -> main

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git merge develop

Already up to date.

ninakhaytovich@Ninas-MacBook-Pro Mentorpiece % git push

git@github.com:NinaKhaytovich/Mentorpiece.git

Everything up-to-date