Prerequisites

• You should have made the necessary changes cited in the task's step-by-step guide

What is a patch file

- You should know by now that git is a way for developers to manage code in a project especially if there's other developers collaborating in that project too.
- A git **patch** file is just a file that you can **apply** to a repository to get the changes / modifications / additions another developer did on his / her machine onto your local machine. This isn't the only way to do that of course but this is a viable method if you don't have push access to a repository

How to make a patch file

Scenario 1: You only made one commit for all the required changes

• Fire up a terminal, enter the repository via the terminal you opened (via the cd <repo_name_here> aka change directory command) and run the command below

```
git format-patch -1 HEAD
```

• After executing the command, a .patch file will be produced in the directory where you executed the command. You will upload this as your submission to the task

```
D6a0efa (HEAD -> main) Appy updates to meet requirements | In this example, this top-most commit is the only commit made on top of existing commits to apply all changes for the task of the only commit made on top of existing commits to apply all changes for the task of the only commit made on top of existing commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only commits to apply all changes for the task of the only changes for the o
```

Scenario 2: You made multiple commits for all the required changes

• Fire up a terminal, enter the repository via the terminal you opened (via the cd <repo_name_here> aka change directory command) and run the command below

```
git format-patch -n -stdout > multi_commit.patch
```

note: the **n** in **-n** must be replaced with a number which represents the number of commits you made for the task. So the real command if you made 4 commits on top of the old commits should be

```
git format-patch -4 --stdout > multi_commit.patch
```

• After executing the command, a .patch file will be produced in the directory where you executed the command. You will upload this as your submission to the task

```
a784bac 2558a2e Update main Update getRatio Update getDataPoint (origin/main, origin/HEAD, main) Re-add sample unit test 24707a7 Rename client and server files bd3f50e Added Requirements bf70ef0 initial commit Update README.md fc80355 Initial commit
```