

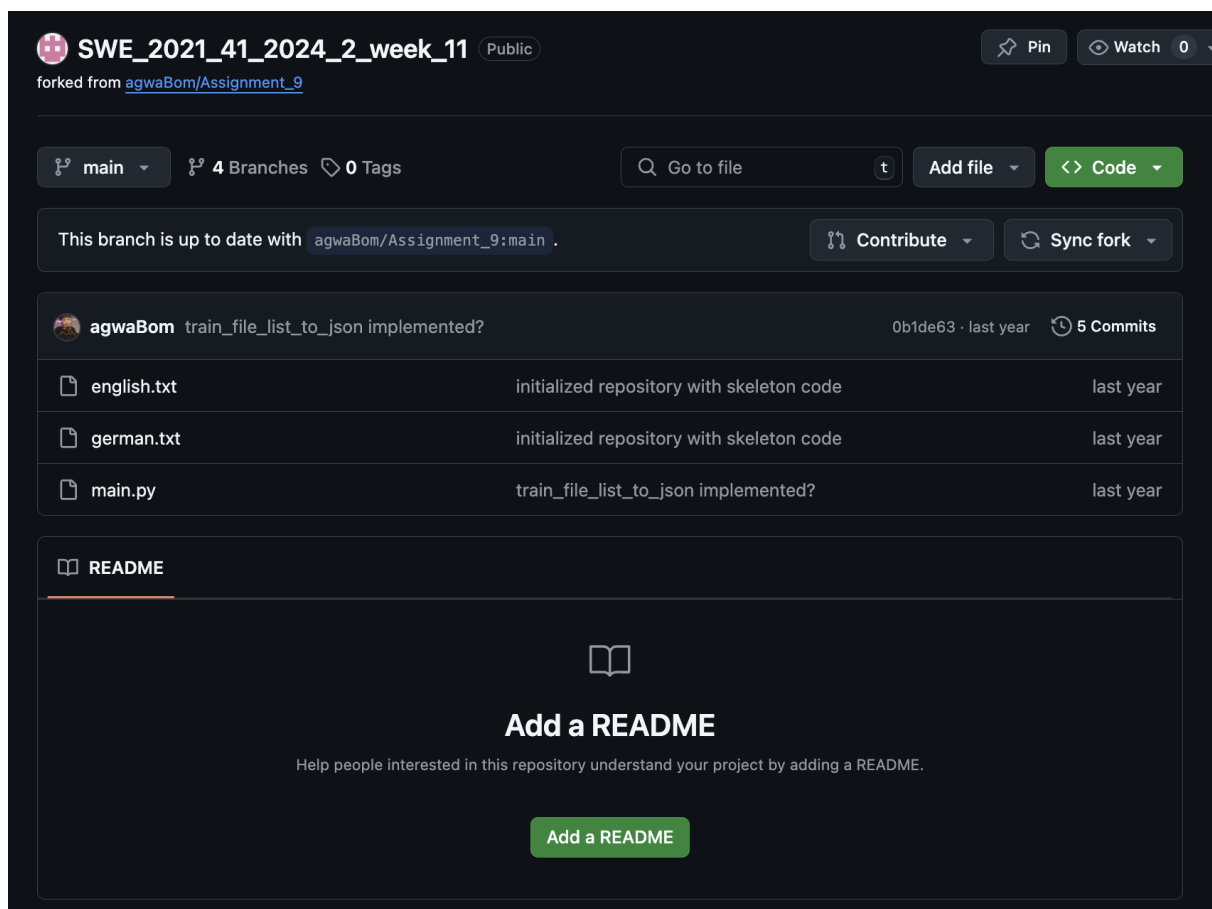
# Assignment

## Weekly Assignment 11: Git Advanced 2

### Task Description

You have been given a repository that is already implemented the core functions in

[https://github.com/hmtyj2/SWE\\_2021\\_41\\_2024\\_2\\_week\\_11](https://github.com/hmtyj2/SWE_2021_41_2024_2_week_11)



To briefly tell what this repository does is to convert a list of **"english.txt"** and **"german.txt"** into a concatenated **"concated.json"** file

### english.txt

```
India and Japan prime ministers meet in Tokyo
India's new prime minister, Narendra Modi\ is meeting his Japar
```

Mr Modi is on a five-day trip to Japan to strengthen economic ties. High on the agenda are plans for greater nuclear co-operation. India is also reportedly hoping for a deal on defence collaboration.

Karratha police arrest 20-year-old after "high speed motorcycle crash". A motorcycle has been seized after it was ridden at 125km/h in Karratha. Traffic police on patrol in Karratha this morning tried to pull over the rider. Police say the rider then failed to stop and continued on to Burrup. The motorcycle and a person matching the description of the rider have been seized.

## german.txt

Die Premierminister Indiens und Japans trafen sich in Tokio. Indiens neuer Premierminister Narendra Modi trifft bei seinem Besuch in Japan. Herr Modi befindet sich auf einer fünftägigen Reise nach Japan, um die Beziehungen zwischen den beiden Ländern zu stärken. Pläne für eine stärkere kerntechnische Zusammenarbeit stehen ganz oben auf der Agenda. Berichten zufolge hofft Indien darüber hinaus auf einen Vertrag über die Nutzung von Atomkraft.

Polizei von Karratha verhaftet 20-Jährigen "nach schneller Motorradcrash". Ein Motorrad wurde beschlagnahmt, nachdem der Fahrer es mit 125 km/h zu schnell gefahren war. Verkehrspolizisten in Karratha versuchten heute morgen, ein blaues Motorrad zu stoppen. Die Polizei berichtet, dass der Fahrer die Haltesignale dann ignorierte und weiterfuhr. Das Motorrad sowie eine Person, die der Beschreibung des Fahrers entspricht, wurden beschlagnahmt.

## The result after running main.py after a successful merge (concated.json)

```
{"English": "India and Japan prime ministers meet in Tokyo", "German": "Die Premierminister Indiens und Japans trafen sich in Tokio."}, {"English": "India's new prime minister, Narendra Modi is meeting Japanese Prime Minister Shinzo Abe in Tokyo", "German": "Indiens neuer Premierminister Narendra Modi trifft bei seinem Besuch in Japan. Herr Modi befindet sich auf einer fünftägigen Reise nach Japan, um die Beziehungen zwischen den beiden Ländern zu stärken."}, {"English": "Mr Modi is on a five-day trip to Japan to strengthen economic ties", "German": "Herr Modi befindet sich auf einer fünftägigen Reise nach Japan, Pläne für eine stärkere kerntechnische Zusammenarbeit stehen ganz oben auf der Agenda."}, {"English": "High on the agenda are plans for greater nuclear co-operation", "German": "Berichten zufolge hofft Indien darüber hinaus auf einen Vertrag über die Nutzung von Atomkraft."}, {"English": "India is also reportedly hoping for a deal on defence collaboration", "German": "Polizei von Karratha verhaftet 20-Jährigen \"nach schneller Motorradcrash\"."}, {"English": "Karratha police arrest 20-year-old after \"high speed motorcycle crash\"", "German": "Ein Motorrad wurde beschlagnahmt, nachdem der Fahrer es mit 125 km/h zu schnell gefahren war."}, {"English": "A motorcycle has been seized after it was ridden at 125km/h in Karratha", "German": "Verkehrspolizisten in Karratha versuchten heute morgen, ein blaues Motorrad zu stoppen."}, {"English": "Traffic police on patrol in Karratha this morning tried to pull over the rider", "German": "Die Polizei berichtet, dass der Fahrer die Haltesignale dann ignorierte und weiterfuhr."}, {"English": "Police say the rider then failed to stop and continued on to Burrup", "German": "Das Motorrad sowie eine Person, die der Beschreibung des Fahrers entspricht, wurden beschlagnahmt."}, {"English": "The motorcycle and a person matching the description of the rider have been seized", "German": ""}
```

Your task in this assignment is to successfully merge branches in each function to the **"main"** branch. (**train\_file\_list\_to\_json**, **path\_to\_file\_list**, **write\_file\_list**)

One branch is already merged with a **"fast-forward"** strategy, you don't need to merge with that branch. I won't tell you which branch is already merged since figuring out a merged branch is part of the assignment (But you don't need to tell me which branch is already merged).

Note that whenever you try to merge with the **"main"** branch will trigger a merge conflict

```
⊗ (base) khyunjin1993@amazon:~/dev/homework/open_source_software/Assignment
Auto-merging main.py
CONFLICT (content): Merge conflict in main.py
Automatic merge failed; fix conflicts and then commit the result.
```

```
def path_to_file_list(path: str) -> List[str]:
    """Reads a file and returns a list of lines in the file"""
    <<<<<<< HEAD
    # Will this be working?
    lines = open(path, 'r').read().split('\n')
    =====
    # implemented as a one-liner
    lines = open(path, 'w').split('\n')
    >>>>>> path_to_file_list
    return lines
```

The main task of this assignment is to

- **Resolve the conflict** by choosing the right section of the code
- **Merge all of the branches** that can successfully do their work as intended

1. Fork and clone the repository by accessing  
[https://github.com/agwaBom/Assignment\\_9/fork](https://github.com/agwaBom/Assignment_9/fork)
2. **"git checkout"** all of the branches before starting
  - a. git checkout train\_file\_list\_to\_json
  - b. git checkout path\_to\_file\_list

c. git checkout write\_file\_list

3. The result of the **"git log --oneline --graph --all"** should show the following

```
* 43e61a1 (HEAD -> main, origin/main) train_file_list_to_json implemented?
| * 4034f29 (origin/train_file_list_to_json, train_file_list_to_json) train_file_list_to_json implemented
|/
* 6aefba3 path_to_file_list implementation_1
| * 9a3068e (origin/path_to_file_list, path_to_file_list) path_to_file_list implemented
|/
* 12c716f (origin/write_file_list, write_file_list) write_file_list implemented
* cdb9920 main code finalized
* 6c92f3e initialized repository with skeleton code
```

4. Merge all branches that result in the following

```
* 8a5c013 (HEAD -> main) train_file_list_to_json merged
| \
| * 4034f29 (origin/train_file_list_to_json, train_file_list_to_json) train_file_list_to_json implemented
* | aff8721 path_to_file_list merged
| \ \
| * | 9a3068e (origin/path_to_file_list, path_to_file_list) path_to_file_list implemented
* | | 43e61a1 (origin/main) train_file_list_to_json implemented?
| | /
| | /
| | /
* | 6aefba3 path_to_file_list implementation_1
| /
| /
* 12c716f (origin/write_file_list, write_file_list) write_file_list implemented
* cdb9920 main code finalized
* 6c92f3e initialized repository with skeleton code
```

- All branches should merge into the **"main"** branch

1. Push all four branches to your GitHub remote-repository

- a. git push origin main
- b. git push origin train\_file\_list\_to\_json
- c. git push origin path\_to\_file\_list
- d. git push origin write\_file\_list

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## Submission

- The TA will grade the code by creating a copy of the student's repository at **"https://github.com/[Your\_GitHub\_Username]/SWE\_2021\_41\_2024\_2\_week\_11"**

- If TA cannot access the repository at that address or the name of the python script ("main.py") is different, the homework will not be graded.
  - Student must submit GitHub id (username) to iCampus
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## Due date

24/11/13 23:59