Peer Evaluation Program (PEP)

How To Run PEP

To use, please activate the virtual environment by running the following command:

```
source venv/bin/activate
```

There are two interactive mode to use PEP:

- Graphical User Interface (GUI)
- Command Line Interface (CLI)

GUI

To run the GUI, run the following command:

```
python3 app.py run
```

The GUI using Tkinter will open and you can follow the onscreen instructions from there.

CLI

The CLI usage is a bit more involved. There are two ways in which you can use the CLI:

- By hardcoding the file paths at the bottom of the `src/mark_ratings.py` file and running the following command:

  ```
  python3 app.py cmd
  ```

- Or by providing the three file paths as arguments in the terminal:

  ```
  python3 app.py cmd <group> <rating> <output>
  ```

NB: TAKE NOTE OF SPECIFIC ERROR MESSAGE

If you encounter an error message (displayed in the terminal) that indicates that Groups, Surnames or other column names are not found, please check the top of the file `src/mark_ratings.py` and ensure that the column names are correctly mapped to the correct column names in the input files. This is due to different modules giving different column names to the same data. Future planned updates are to map these column

names in the GUI, and create a config.txt file for cmd usage. *For now, feel free to change anything in the code to suit your needs.*

README TODO:

1. How to use PEP software.
   - Install using Linux and Mac.
   - Install using Windows (WIP...).
   - GUI and CLI usage.
   - Explain output files.
2. How to setup SUNLearn groups allocation and how to export the resulting file.
3. Format of group allocation file required for PEP if manual allocation is done.
4. How to setup SUNLearn peer review quiz and how to export the resulting file.
5. Format of peer review file required for PEP if manual peer review is done.
6. Explain any misc functions and features, such as self-learning group allocation.

Features TODO:

1. ~~Add ability to toggle option for students to rate themselves.~~ ✓
2. ~~Add an Excel spreadsheet file as an output to both check internal calculations and for users to see how the calculations are done. This file should take on the familiar format of manually calculating the grades as done in the past.~~ ✓
3. ~~Add an Excel spreadsheet file as an output for all worded reviews in order to easily check for group member names and ratings.~~ ✓
4. ~~If group file is absent, self-learn and associate members to groups based on peer review.~~ ✓
5. Start/Expand/Finish README
6. Check all given member ids before attempting to correct them (Potentially reducing initially flagged students).
7. Record and display reason for flagging students.
8. Map Column names in GUI.
9. Sunlearn was updated: Change group file support from xlsx to csv.
10. Add a config file for CLI usage.
11. Perhaps move GUI from Tkinter to Plotly Dash due to better support for data visualization and version control.