Requirements

1. Requires Python 3.6+
2. Requires all data files to be present:
   a. data/seasons.json
   b. data/players.json
   c. data/rankingPoints.json

How to use the Menu

- The menu is built up of many submenus that are automatically generated during use.
- Options can be selected with their selection ID as displayed in the terminal.
- If you are within a sub menu, you will be able to "Go Back" by typing 'b' as your input.

- Menu items marked with "→" are sub menus and can be further accessed whereas items without will call upon a function.

How to load the application

1. Run the application by typing `py ./main.py` in a terminal window.
2. You will need to select 1 of 3 loading implementations:
   a. (1) Empty Round Data
      i. This will clear all rounds data within the seasons.json file.
      ii. You will not be able to emulate tournaments or rounds until the round data has either been generated automatically or manually inputted via the terminal.
      iii. This overrides the state flag for 'Saving'

   b. (2) Generate New Data *[sub menu]*
      i. This will lead you to another menu where you can generate up to a certain round for the genders defined within the players.json file.
      ii. Generating up to Round 3 Male, Round 3 Female will generate the rounds up to round 3 on both of these genders, Round 4 and Round 5 will be left empty and you will be able to generate or manually input this data within the menu.
      iii. This overrides the state flag for 'Saving'

   c. (3) Load Previous Data
      i. Loads the data that has been stored in the seasons.json file in the previous session. If the state flag for 'Saving' is disabled, the data will not be updated within the seasons.json file, so loading from previous session with this disabled will load the session from the previous saved data.

Using the Menu

When you load the menu (after picking a loading implementation), you need to pick your season. You will see an option that says "Load Season ->", press 1 as an input.

Within this "loading" sub menu, you can pick a season. "season_1" is the Season we will be using, so press 1 as an input again. You will see all the tournaments within the Season that are available, pick an option 1-4 to view them, or use 5 to view the overall leader board (provided that at least one tournament has been completed [all rounds data exists]).

When Selecting a Tournament

-   You will have 6 options:
    -   Emulate Tournament *[sub menu: select gender]*
        -   If no rounds have data (i.e. empty tournament) or a round has no data, you will be unable to emulate it. It will provide you with 2 options following this:
            -   ➔ Modify this round -> Generate or Manually Input Data
            -   ➔ Stop Tournament Emulation -> Go back to the menu
        -   Use this to run through every available round, shows the match data
            -   ➔ PlyrA_Name PlyrA_Score vs. PlyrB_Score PlyrB_Name

    -   Select Round *[sub menu: gender/round_number]*
        -   Selecting a round allows you to view the Round results (like emulating) but for a specific round. If the round does not exist, it automatically moves you to the menu where you can generate or Manually Input the data.
        -   You can only generate data if the previous round has data, unless it is the beginning round (Round 1).

    -   Edit Round *[sub menu: gender/round_number]*
        -   Edit a specific round: edit scores or clear the scores for the particular round
            -   ➔ More information is provided on the menu itself.
        -   If the round does not exist (no data for the round), the option will be unavailable.
            -   ➔ Use 'Select Round' to generate or manually input the data.

    -   View Difficulty
        -   View the Difficulty of the selected Tournament

    -   View Prize Money
        -   View the Prize Money of the selected Tournament

    -   Enable/Disable Saving
        -   Toggle the File Saving state.
            -   ➔ **Enabled**: Save all changes to 'seasons.json' file
            -   ➔ **Disabled**: Do not save changes to 'seasons.json' file

Viewing Overall Leader board Data
- Navigate **back** to the menu where you can select Tournaments
    - o   Use the input character **'b'** in order to cycle back through menus

1. Select **'5'** (the option name should be 'View Overall Leader board')
2. Type the gender you would like to view (default: male/female)
3. Select the tournaments you would like to view/migrate together for an 'overall'
    a. This is done by inputting an option, 1 to 4 (provided they are available) which will mark them as "Selected" (this is shown within the menu). Once you have selected the tournaments you would like to 'migrate', press the input character 'v' (as shown in the menu) to proceed.
4. Select the way you would like to sort the leader board
    a. You will be given the option to sort by:
        i. Name
        ii. Prize Money
        iii. Score
        iv. Wins
5. Select one of the options (1-4) and it will display the overall leader board, for the selected tournaments in the selected sort type.