Get VSCode

Get Git (if you don't have it)

Clone the github

\*\*Note: WSL only applies if you are using a windows computer AND want to work on a linux OS. If not, you can skip down to the python section\*\*

Search "command prompt" in start menu, right click, then select "run as administrator"

Get WSL using "wsl --install"

Restart computer

WSL will automatically relaunch

Set your username and password

Update the subsystem with "sudo apt update && sudo apt upgrade"

Get the Remote Development extension in vscode

To open vscode with wsl, either:

- Go to the directory of the workspace in a windows terminal, then type "code ."

- Open vscode workspace and use CTRL+SHIFT+P, then type "Remote-WSL", then select "reopen folder in wsl"

Get python installed

Get python extension for vscode (specifically for the wsl environment if applicable)

Install pip with "sudo apt install python3-pip"

Install required packages with "pip install -r requirements.txt"

They will not be installed on PATH. Copy the file path in which they are installed in.

Right click on the "Computer", "My Computer" or "This PC" icon → select "Properties". Click on "Advanced system settings" (on the left side). (Enter your administrator password when requested.) In the "System Properties" window, click on "Environment Variables" (near the bottom). In the "Environment Variables" window, search for PATH under "System Variables". Select it and click on "Edit…". Click "new" and paste in the file path you copied before and click "OK".

Restart computer.

You should be able to work on the project in VSCode now. If anything does not work as it should, search it up or restart the computer. To use the user interface, open the main.py file and run in VSCode, then open the local domain link in the terminal. To run through the command line, edit the voting\_excel.xlsm spreadsheet as needed, then enter the commands listed in the README document.

For reference and debugging purposes, the calling structure of the program is as follows:

Allocation -> Apportionment -> Evaluate Location -> IZGBS -> AKPI -> Voter Sim