InstructionsToRun.md 2024-01-22

Instructions to Run:

Prerequisites

- 1. Have Java (recommended version: 21) and Python 3.11+ installed
- 2. Install the following python packages with pip:
 - pyftg (includes the interface for the environment and python)
 - o torch
 - numpy
 - o pillow
- 3. Have a working audio device connected (can be at volume 0, but if the game can't play audio, startup fails)

Run the Environment

- 1. Download and unzip the file DareFightingICE-v6.1.zip
- 2. Run the run-<your-os>-amd64 file inside the unzipped folder

Run the Al

- 1. Open a terminal and navigate to the AI folder of this submission
- 2. Run the respective AI
 - If you want to run the Q-Learning AI, run python ./QLearningAI.py
 - If you want to run the Deep Q-Learning AI, run python ./DeepQLearningAI.py

Start the Game

- 1. In the environment, navigate with the arrows and the key 'Z' to confirm. Select and confirm "Fight".
- 2. The Al agent should be selected automatically. Select the MCTS agent in the respective field with the arrow keys. Leave the character selection default (ZEN).
- 3. Select "Play" and press 'Z'