README

To run these files

Part 1:

1. install numpy and Matplotlib

2. Open Sypder in Anaconda

3. Run 'FFT_Audio_Filte.py'

4. The file 'noisySound.py' and 'cleanSound.py' will be downloaded into the same location the py file is run on.

Part 2: Heart Rate Analysis

To run this code:

1. Install numpy, heartpy, pandas

2. run wav2csv and make sure 'heartrate.csv' is in the same folder

3. then run 'heartrate_analysis'

Part 3: Game Development (Red Alert)

To run this code:

1. Install pygame zero:
   a. Open anaconda prompt

b. "pip install pygame"

c. "pip install pgzero"

2. Open Sypder in Anaconda

3. Run 'red.py'

4. Make sure image 'snowflake-red.png', 'snowflake-green.png' and 'snowflake-blue.png' is within the folder 'images'

Demonstration: https://youtu.be/X6RH8O-q_VU

Demonstration part 2: https://youtu.be/qHFwYRrkNsU