README

What position_generator.py does:

It generates a series that has time as its index and position (of sound) as its data.

Assumptions:

1. Assume the distance between two speakers is 1, so the total distance between speaker 1 and speaker 4 is 3.
2. Assume the sound moves at constant velocity 0.5
3. Assume the time interval between each position update is 0.1
4. These numbers are only made up for testing purpose, and they can be easily changed. It's also fairly easy to make the velocity not constant.

Methods:

initialize(init_position): set up the position that the sound starts from.
move(lst): enter a list of numbers that indicates a sequence of positions.

Example files generated:

- position_data_1.pickle:
  `initialize(0) move([3,0])`
  means starting from 0, go [3,0]. (First to the rightmost position, then return to the original position)
- position_data_2.pickle:
  `initialize(0) move([2,1,3])`
- position_data_3.pickle:
  `initialize(1.5) move([1.5,1,2,0.5,2.5,0,3,1.5])`
- position_data_4.pickle: `initialize(1) move([1,1,1,1,1,1,1,1,1,1,1,1,1,1])` (Stays at 1)