Due Dates March 7 End Day

Tuesday, March 7 before class

- 1. Identify 3 resources related to computer simulations of flocking behavior (in addition to the 2 videos referenced below).
 - Provided Links:

https://www.youtube.com/watch?v=QbUPfMXXQIY&ab_channel=dante https://eater.net/boids

- Adnan's Link:

https://cs.stanford.edu/people/eroberts/courses/soco/projects/2008-09/modeling-natural-systems/boids.html

- Sam's Link: https://www.youtube.com/watch?v=4LWmRuB-uNU (I really enjoy this youtuber)
- Ermais's Link :

https://codeheir.com/2021/03/27/the-flocking-algorithm/#:~:text=Flocking%20is%20a%20behaviour%20that,%3A%20 separation%2C%20 alignment%20and%20 cohesion.

- 2. Repo is created. List your resources in the README.md.
 - https://github.com/SammyWint/FlockingProject
 - Create README.md
- 3. List of anticipated methods that will be needed (in the planning document/directory).
 - a. Public void averagePosition() -Public void averageDirection() -
 - Public void findNeighbor() Public void updateGUI() Display all current positions of circles
- 4. A documented process for commits (in the planning document/directory)
 - a. Let's talk as a team on 03/07
 - b. Should we push when we have updates for a class or work on classes together
- 5. New model created for flocking with a large population.

New model created for flocking with a large population.

- a. Increase circles to 40(Change the code below)
- b. Increase GUI size
- c. Change the pane size
- 6. List of all methods

Class Notes: March 2, 2023

Additional In-Class Project Notes:

- → Calculate average position
- → Calculate average direction
- → Vector or angle
- For each circle
 - → Determine close neighbors
 - → Move away from them
 - → These 3 things impact current direction of each circle(either circle class or model class)



