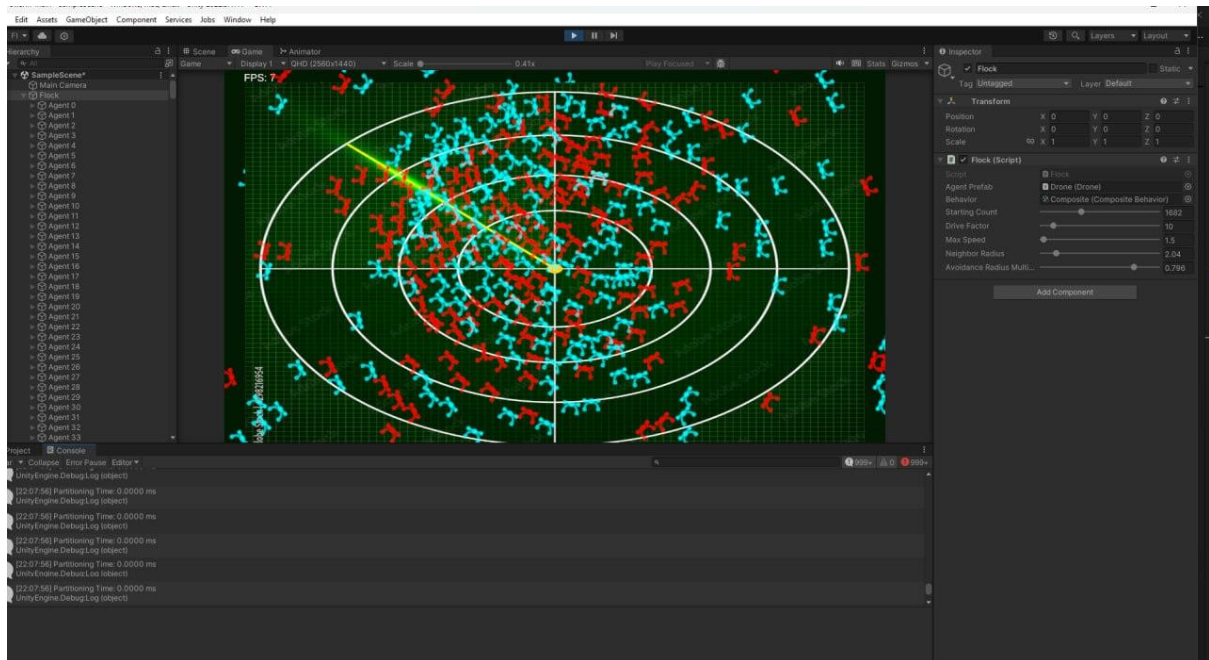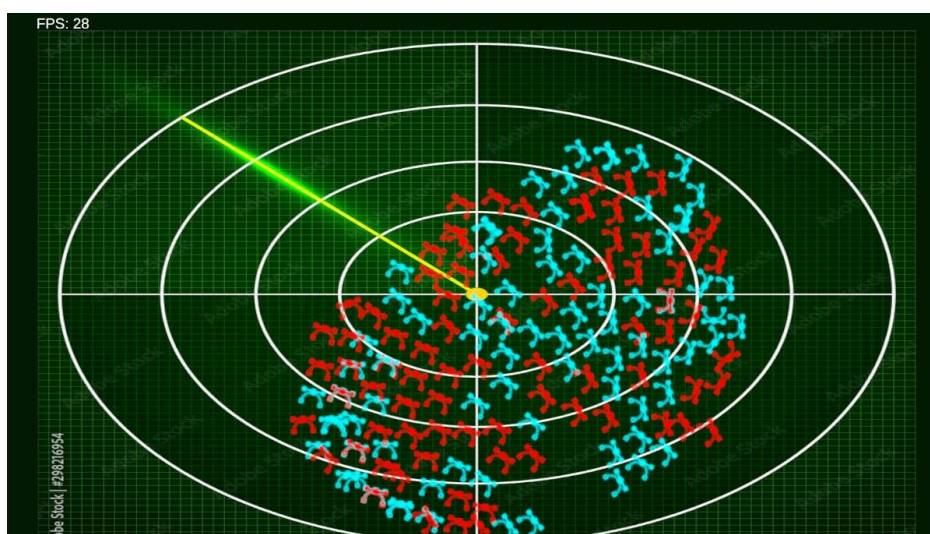Drone Application

The chosen application for the drone swarm is as military drone. The code will be used as partitioning to divide the drone into 2 groups. Group 1 is for drone with high bullets counts and Group 2 are drones with low ammo. In this simulation, the threshold of bullet is 50 bullets, drones with less than 50 will be put into group 2.

The picture shows the simulation of the drone swarm. Red drones are Group 2 for drones with less than 50 bullets. Cyan drones are Group 1 with more than 50 bullets. Every 5 seconds the code will randomize the bullet counts possibly changing the drone's colour.

The FPS show 28 FPS at 159 drones

At the consoles shows the runtime.

PC spec for the test

 CPU: Intel i7-11370H

 GPU: Nvidia RTX
 3050Ti

 RAM: 40GB

 Storage: 1.5TB SSD