# Week 9 - 12 Summary

## Week 9

### Research

Most research was put into understanding the formulation of University of Alberta’s research into rabbits and wolves. However, the information on their research is quite hidden and there wasn’t a lot of information was not online for reference. After digging further, the methods they used were not transferrable to my own project

### Implementation

Attempted to implement 5x5 viewing pattern but was unsuccessful due to an issue regarding backwards passes

## Week 10

### Research

New loss functions to replace the current one. While there were many alternatives, for loss functions very few managed to remove hyperparameters that were already built into the system. Because the system is supposed to be autonomous, functions that raise the number of hyper-parameters are not ideal.

### Implementation

The newer improved ones rather than just using a function of the reward in the system also take into account their total health. This makes the agents think more in terms of their own health rather than just in what rewards them the most

## Week 11

### Research

This was the week where the final meeting was held. There was no more research done after this point.

### Implementation

Final touch ups in regards to code cleaning on the agents and the maps

Created a Powerpoint, to describe the project and work that can be done in the future as well inspirations and potential and time estimates for the future

## Week 12

### Research

Week of Presentation and Final Report, no research was completed

### Implementation

Slides were touched up and final report is being worked on