



CS4041 - Computer Modeling and Simulation



Assignment 2 Due Date: 3rd March, 2024

The **Nagel-Schreckenberg (NS)** model is a simple cellular automaton model used to simulate traffic flow on a one-dimensional road. Google or ask any AI tool how Nagel Schreckenberg n-lanes model for traffic simulation works.

Then implement this model in any language of your choice. You are free to use code generated by any AI tool but you have to record a video of typing in the code yourself and then explaining what each line of code is doing. Your video should also capture what you think about the results given by the simulation.

Extra credit will be given to those who change the rules of the NS model and then comment on the results.