

# Modelling, Simulation and Optimisation for Baseline and Traffic signals of the Road

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This is the read me which contains the information about both the file Baseline\_Kishore.ipynb and TrafficLight\_Kishore.ipynb in the archive zip.

## 1) Baseline\_Kishore.ipynb

This file contains the simulation build for the normal road with crossing through the main and local loads. The logs are produced for calculating the average waiting time, speed and traffic flow in the main and local road during the rush hours and day time.

## 2) TrafficLight\_Kishore.ipynb

This file contains the simulation build for the traffic light implementation between the crossing of the main and the local road. The aim of this code is to accommodate the maximal flow of traffic in main road with the actual flow of traffic in local road.

These results are plotted and made an final report for the submission. It explains the detail flow and use cases of the research.