# WORKING DOCUMENT

So the idea for this project is to create an application for a car traffic simulator in which our goal is to move the vehicles from one road to another with traffic lights at the end of every road.

I created the simulator class which acts as a main class and in the simulator class I declared a Boolean to end the program or not and I also declared car and traffic variables inside that class and I added road variable to produce the number of roads I want.

After that I ran a loop for the movement of car from one road to another.

Then Car class was created for determining the position of the car.

TrafficLight class is made to hold the rate of change at which the color changes with the help of math.random

And lastly the road class hold the connection of roads , updated position of the cars , the length and positioning of the traffic light.