**User Stories**

**User1**

As User1, I want to develop a user input for length of the road so that I can set up a road to simulate for the car.

**User 2**

As User2, I want to add attributes such as length and breadth for the vehicle that I am using so that I can visualize the car that I am simulating. The class will be named Car class.

**User3**

As User3, I want to add at least 2 types of vehicles which inherit attributes from the Car class for the simulation so I can determine the situation with different lengths of the vehicles.

**User4**

As User4, I want to add traffic lights for my road so as to be realistic with the real-life road situations. The moving car will stop when the traffic light turns red. The status of the light will be chosen randomly.

**Developer User Stories**

**Developer1**

As Developer1, I can add more attributes for the Car class so that I can determine the simulation using additional situations created by the new attributes.

**Developer2**

As Developer2, I can add more types of vehicles that inherit from the Car class and change different attributes such as breadth and speed of the vehicle, not just its length.

**Developer3**

As Developer3, I could add additional “Situation” classes so that I can simulate the traffic in real-life situations such as weather. If it is raining, the roads will be slippery, causing the cars to go faster.

**Developer4**

As Developer4, I want to change the traffic lights manually or create a pattern for switching traffic lights so that I can control the traffic situation whenever necessary.

Git Hub Link: <https://github.com/khtkht1001/CP2406-Assignment1-KhantHtetThar>

