Assignment: SE_WEEK12   Simulation Engineering

Code Desgin & Verification

for code design and verification we follow every functional and no-functional requirement and write the code in following below state diagram.

Requirments:

▪ **4 functional min.**

 ▪ **2 non-functional min.**

 ▪ **Conceptual model**

▪ **Informal UML diagram – structural or behavioural**

▪ **Explain it in the document**

Functional Requirements :

Add_car   //for adding car in queue

Turn_green   //for turning lights to green after 30 seconds for time latency.

Turn_red   //for turning lights to red after 10 seconds for passage time.

Remove_car   //for removing car from queue.

Non-Functional Requirements:

Total_time //for each car total time with waiting time should lead to better performance.

Events_Check   //for each, events should be called in correct manner for better consistency and accuracy.

Conceptual Model: Behavioural Model: State Diagram