

SENG201 Assignment

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- There are three folders In my assignment after extracting the zip file.
The “transcripts” folder contains two transcripts for “MyIntersectionLoader” class to load.
If opening “pretimedIntersection.txt” file, a pre timed intersection would be displayed on monitor, likewise, opening “fullyActuatedIntersection.txt” file would show a fully actuated intersection.
- A new feature was added to my intersection transcripts, that is: either a word “phase plan = fully actuated phase plan” or “phase plan = fully actuated phase plan” is expected to be read followed by reading <phasePlan> tag in my loader. This will helped my program to decide whether this transcript describes a pre timed intersection or a fully actuated intersection.
- The transcripts with multiply phase plans(more than one <phases> tags) are acceptable, but the phase plan added after would not be shown in the monitor.
- I assume that the Name and Description of the intersection can only be within one line, that is, its name and description should be short enough.
- I divides the menu “My Demo...” into to menus, one is “My Demo(pretimed)...” for showing pre timed model intersection, the other one is “My Demo(fully Activated)...” for showing fully actuated model intersection.
- All my transcripts files are modified based on the transcript on our assignment handout (figure 7).
All my model intersections (“My Demo...”) are almost the same as the model intersection showed by pushing “Demo”. I only make a fully actuated version for that one.
- One challenge I faced:
When loading a fully actuated intersection transcript file, and then start this intersection, all the phases between the first one and the last one are skipped though the colour has changed.

The way I fixed:

By the other student's help on forum, the reason that causes this problem is that I added detectors when creating traffic streams for my intersection, and the boolean value that decides whether the intersection is pre timed or fully actuated is still false by default because traffic streams part comes before phase plan part in my transcripts.

So, the way I solve it is that put the detectors addition into the function which read phases.

- Saving and loading an intersection need the user to choose a file by pushing the menu “saving intersection” and “loading saved intersection”. And there are two saved intersection file in the “load” folder, “pretimed.ser” is a pre timed intersection, “fullyActuated.ser” is a fully actuated intersection.