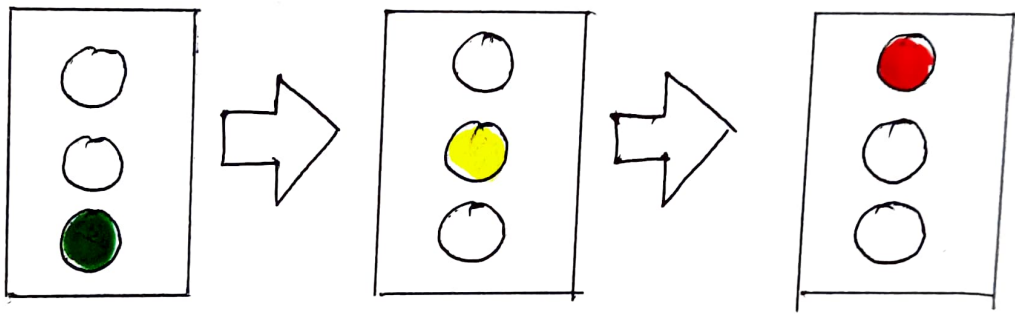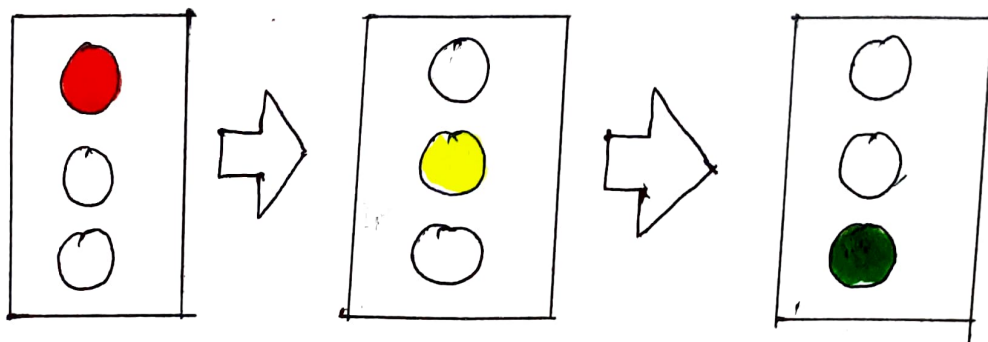Just when SENSOR = 1, the highway lights change from green to red via yellow, and the side street lights follow a pattern contrary to this.

In this situation, the traffic lights facing the highway (z_1) look like:
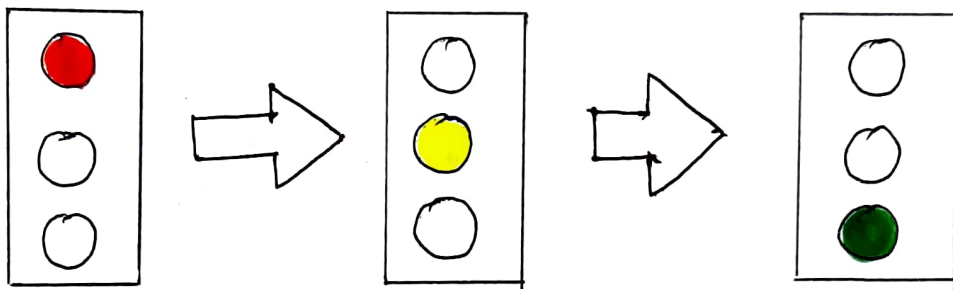

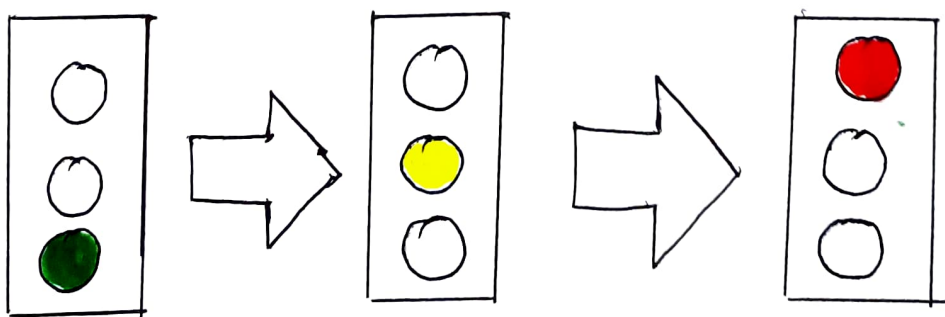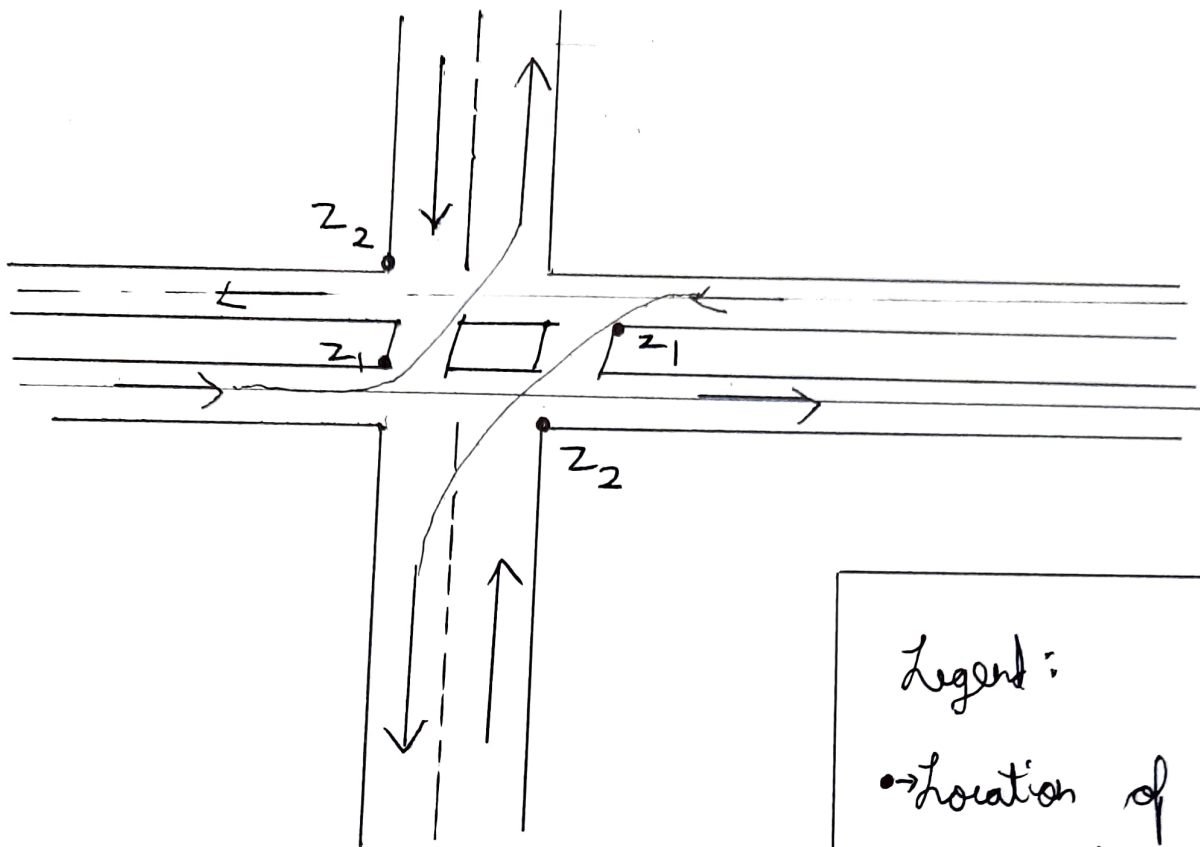At the same time, the traffic lights facing the side street (z_2) follow the pattern

Just when SENSOR=0, the highway lights change from red to green via yellow, and the side street lights follow a pattern contrary to this.

In this situation, the traffic lights facing the highway (Z_1) looks like:

At the same time, the traffic lights facing the side street (Z_2) follow the pattern:

z_2

z_1 z_1

z_2

Highway - Side street
system

Legend:

•→Location of
signal systems

•—→ →→ Pathways
permissible