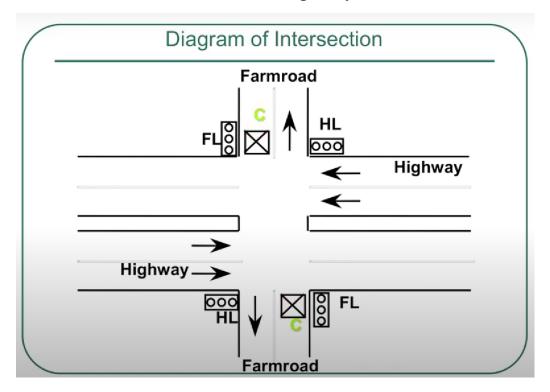
Traffic Light Controlling System

A basic traffic light controller for a junction where a relatively less crowded road intersects with a highway



The farm road is less crowded and vehicles pass through occasionally.

Therefore, we can place a sensor in the farm road prior to the junction to detect the presence of a vehicle. If Sensor C detects presence it Gives a window for the Farm road vehicles to pass by.

Implementation

Input signal	Description
Reset(rst)	Fsm moved to initial state
C	Flag to show the Sensor C detection
TS	Flag to indicate Intervel for Farm road expired
TL	Flag to indicate Intervel for Main road expired

Output signa	l Descri	ption

Output signal that initiates both the timer intervel for Farm road and Main road.

States for the system

State	Description
S0	Highway green (farmroad red)
S1	Highway yellow (farmroad red)
S2	Farmroad green (highway red)
S3	Farmroad yellow (highway red)

State transition diagram

