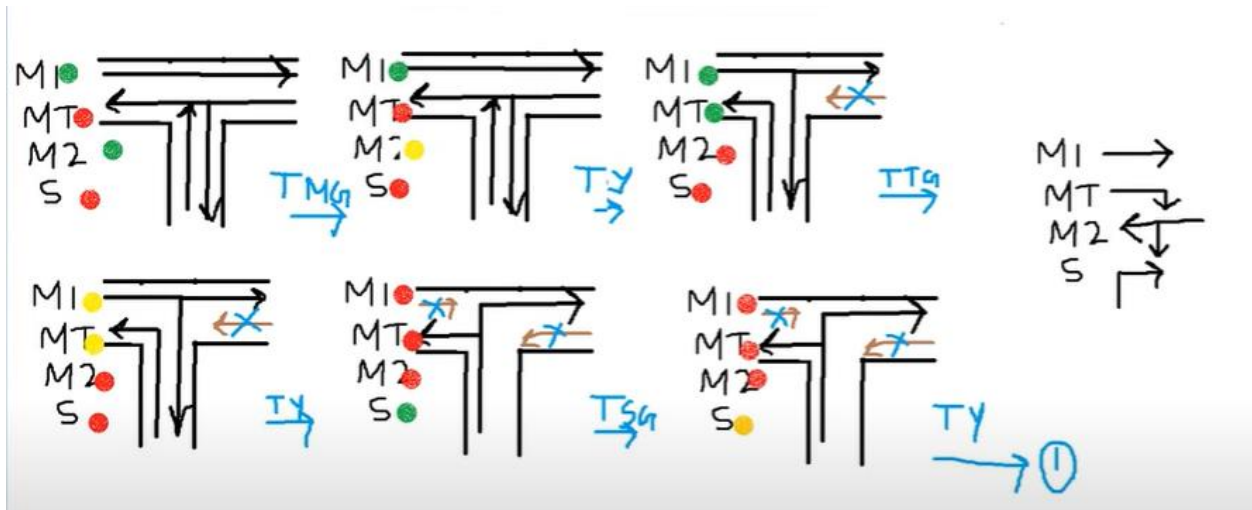# Traffic Light Controller for T- Junction.

Here M1, MT, M2 and S are the 4 ways of regulating the vehicles at T junction.

At 1st instance M1 main line is open and M2 line is open. But vehicles from main line (M1) cannot turn right. Also vehicles from other line(s) cannot turn right when main line is open. So those vehicles should stop.

State Table

Present state A bc	Input A*ß*c*	NS	ST	MI RYG	M2 RIY	T RIY	S RIY
000	–	001	1	000	000	000	000
001	T̄M̄Ḡ	001	0	001	001	100	100
001	TMG	010	1				
010	T̄Ȳ	010	0	001	010	100	100
010	TY	011	1				
011	T̄T̄Ḡ	011	0	001	100	001	100
011	TTG	100	1				
100	T̄Ȳ	100	0	010	100	010	100
100	TY	101	1				
101	T̄S̄Ḡ	101	0	100	100	100	001
101	TSG	110	1				
110	T̄Ȳ	110	0	100	100	100	010
110	TY	001	1				
111	–	000	0	000	000	000	000