

We project prototype
we set one second
equal



**ASSIGN
BUSTER**

We set 1sec= 20 mint in our code so that atprototype we easily show and done all results quickly. We actually make a realtime clock but for project prototype we set one second equal to the 20 mints sothat we easily run in short time.

After the In-Active time passed then signalsare starts normally according to density levels on any side of the roads. Wegive two hours extra for Saturday and Sunday because these days are holidays. In density based traffic control system weadjust time as power is given to the hardware and we manually set day number, hour's and mints and then we operate thehardware further. For day 6 and 7 In-Active time is 11: 00 pm to 09: 00 am yellow lights of all signals are blinkingbecause at that time traffic density is too much low so that we set the time asIn-Active . For day 1, 2, 3, 4 and 5 in active timeis 11: 00 pm to 07: 00 am yellow lights of all signals are blinkingbecause at that time traffic density is too much low so that we set the time asIn-Active .

7. One (7) means Sunday 6. One (6) means Saturday 5. One (5) means Friday 4.

One (4) means Thursday 3. One (3) means Wednesday 2. One (2) means Tuesday 1. One (1) means Monday

TimeIn-Active basically that time in which all signals are free and yellow light isblinking which means all four ways of roads are free no signals will follow anylevels in signals system.

We give namesof week days are Time In-Active Emergencyis work according to that given scenario's. Halted signal has time <3 second then controller skip the signal and move nextsignal but as signal- 2 is on due to the

emergency so it will skip signal-2 and moved to the signal number 3 . but if the halted signal has remaining time is > 3 second then green light will on and vehicles passed from signal -1 and after completing the time it will moved to the signal number three because signal number-2 has take his time during emergency vehicle. If

In this project we make all the scenario's which solve real life problems. Let's if signal one is working and emergency is come on very next signal then controller halted the running signal and give first priority to emergency and after that it will move to halted signal

Special case 12 second for three levels minimum, medium and maximum level and one additional second for emergency vehicle and after the passing emergency the signal will return to that signal which was working before emergency If

Emergency side way has density at maximum level then green light will turn on for 13 second 4 8 second for two levels minimum and medium level and one additional second for emergency vehicle and after the passing emergency the signal will return to that signal which was working before emergency If Emergency side way has density at medium level then green light will turn on for 9

second 3. 4 second for minimum level and one additional second for emergency vehicle and after the passing emergency the signal will return to that signal which was working before emergency If Emergency side way has minimum level then green light will turn on for 5 second

If 2. 1.

When no density on the way that has emergency vehicle then only for four second green light turn on after emergency passed then it

will return back to that signal which was working before emergency came

we use push button for emergency detection when on any side of road emergency vehicle arrived then controller detect and jam side of traffic signals and open only that side that way has emergency vehicle there are four scenarios for managing the emergency vehicles.

Push button etc2. Sound sensor1. IR

sensor In our project we add emergency system. this system is has great favor for the Ambulance , fire brigade, Army vehicles etc . When emergency arrived the signal will jam all roads until emergency vehicle passed.

For emergency vehicles we can use different scenarios like Emergency handling. It means if one side of traffic signal has all level of density met which are minimum, medium and maximum respectively. We divide one side of road into three levels named are minimum level, medium level and maximum level. Minimum level has 4 seconds which can be changed . We set our density level at 4 seconds so that as a prototype we easily elaborate it on hardware. And for second level we set 8 second which has two level of traffic density so on forthird level we set 12 seconds for three levels. In this project we improve control of signal which reduced time if low traffic at any level. the best thing is that if any level has no traffic density then controller skip that line and move to the next density signal level and run according to the density level. 3. Maximum level time is 12 second 2.

Medium level time is 8 second 1. Minimum level time is 4 second We use IR sensor which work according to volume based density. In this project we control traffic control signals as how much traffic on any road we made three level for measurement of traffic signals which is 4 second for every level 3. Not a proper In-Active time according to days 2.

No scenario for emergency vehicles 1. Fixed time of signals Traffic control is savior problem of currently world's. Because of increasing populating of the world. As in Pakistan using conventional system which has many problems that is wastage of time like Normal working of density base traffic control system Working