



UNIT-V SYSTEM DESIGN USING MP &MC





TRAFFIC LIGHT CONTROL:

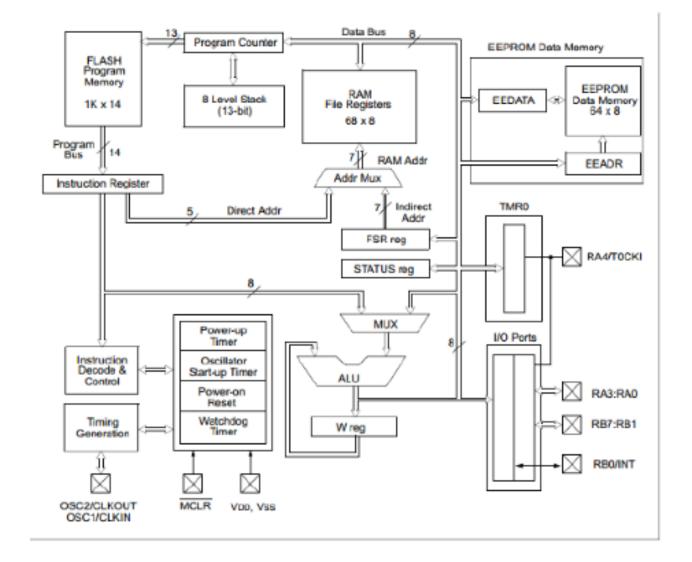
The main objective of this traffic light controller is to provide sophisticated control and coordination to confirm that traffic moves as smoothly and safely as possible.

This project makes use of <u>LED lights</u> for indication purpose and a microcontroller is used for auto changing of signal at specified range of time interval.

LED lights gets automatically turns on and off by making corresponding port pin of the microcontroller "HIGH"

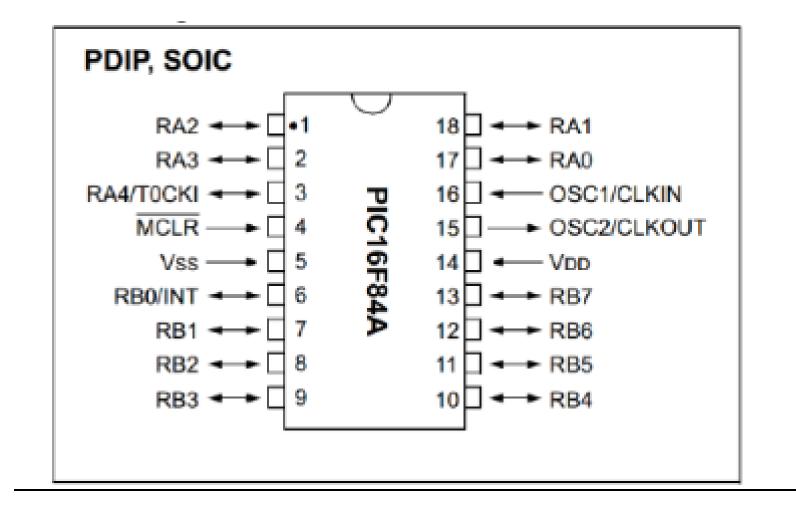
















Pin Name	PDIP No.	I/O/P Type	Description	
OSC1/CLKIN	16	I	Oscillator.	
OSC2/CLKOUT	15	0	Oscillator.	
MCLR	4	I/O	Master Clear (Reset)	
			input/programming voltage	
			Input. This pin is an active low RESET	
			to the device.	
RA0	17	I/O	PORTA is a bi-directional I/O port.	
RA1	18	I/O		
RA2	1	I/O		
RA3	2	I/O		
RA4/T0CKI	3	I/O		





I-Input O-Output I/O-Input/Output			-Power
VDD	14	Р	Positive supply for logic and I/O pins.
Vss	5	Р	Ground reference .
RB7	13	I/O	
RB6	12	I/O	
RB5	11	I/O	
RB4	10	I/O	
RB3	9	I/O	
RB2	8	I/O	
RB1	7	I/O	
RB0/INT	6	I/O	PORTB is a bi-directional I/O port.
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I=Input O=Output I/O= Input/Output P=Power





Signal target	PORT-bit	Light color
Traffic Light 1	A0	Red
	A1	Yellow
	A2	Green
Traffic Light 2	A3	Red
	BO	Yellow
	B1	Green
Traffic Light 3	B2	Red
	B3	Yellow
	B4	Green
Traffic Light 4	B5	Red
	B6	Yellow
	B7	Green





THANK YOU