

Fig 2

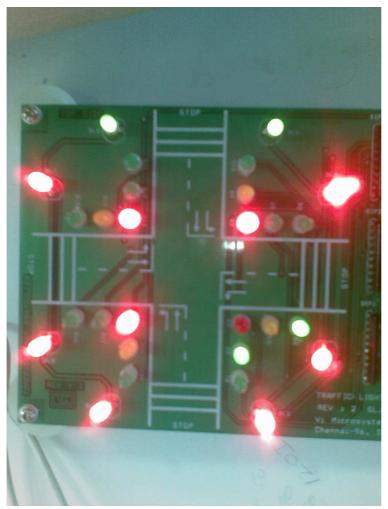


Fig 3

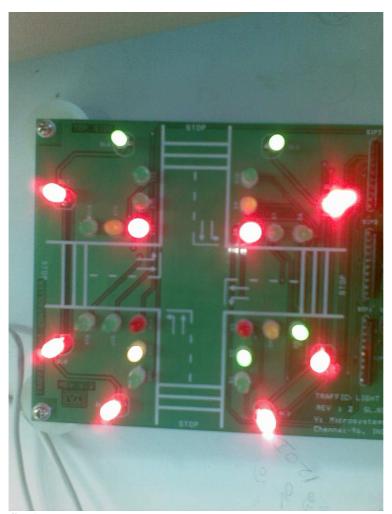


fig 4

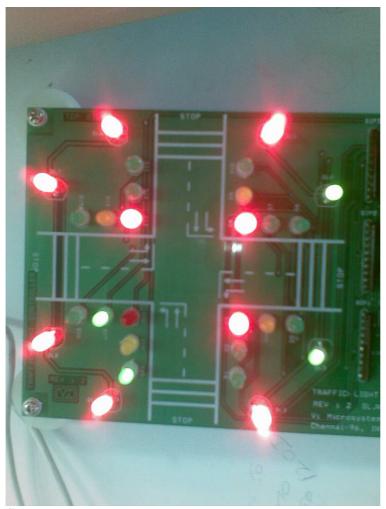


fig 5



fig 6

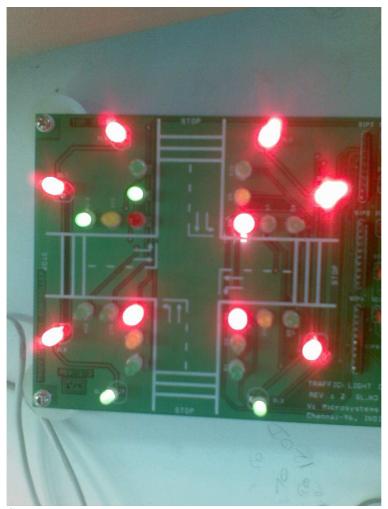


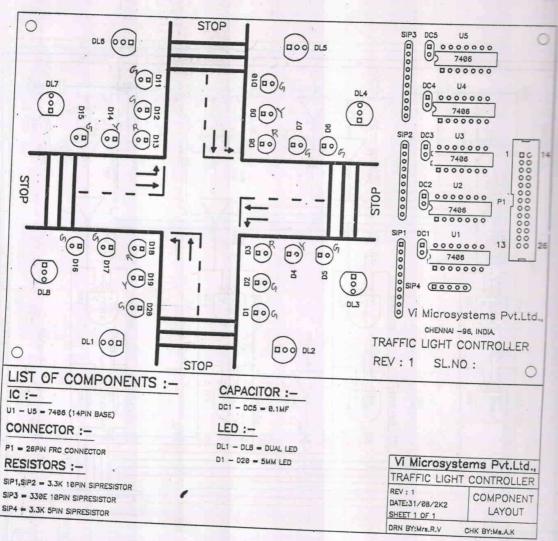
fig 7



Fig 8

Repeat the Following

12 > Port C	Fig 1
27 > Port B	1151
44 > Port A	
Call Delay	
48 >Port A	Fig 2
Call Delay1	
10 > Port C	Fig 3
2B > Port B	1183
92 > Port A	
Call Delay	
4B > Port B	Fig 4
Call Delay1	11g 4
10 > Port C	E: ~ 5
	Fig 5
9D > Port B	
84 > Port A	
Call Delay	
20 > Port C	Fig 6
Call Delay1	
48 > Port C	Fig 7
2E > Port B	
84 > Port A	
Call Delay	
49 > Port C	Fig 8
04 > Port A	
Call Delay1	



PORT A

Bits A7 A6 A5 A4 A3 A2 A, A0 LEDS D8 D7 D6 D5 D4 D3 D2 D1

PORT B

Bits B7 B6 B5 B4 B3 B2 B, B0

LEDS D10 D18 D18 D17 D18 D16 D14 D12

PORTC

Bits C7 C6 C5 C4 C3 C2 C1 C0
LEDS DIG DIS DI4 DI3 DI2 D11 D16 D9

PROGRAM - 2.1

PROGRAM FOR THE TLC USING 8086/88 LCD MNEMONICS

ORG 1000H

	OKO 100011		
CNTRL PORTA PORTB PORTC	EQU 26H EQU 20H EQU 22H EQU 24H		TANK TANK
1000 C6 C0 80 1003 E6 26 1005 C7 C3 73 10 1009 C7 C6 7F 10 100D E8 33 00 1010 8A 04 1012 E6 20 1014 E8 4D 00 1017 46 1018 43 1019 E8 27 00 101C 8A 04 101E E6 22 1020 E8 41 00 1023 46 1024 43 1025 E8 1B 00 1028 8A 04 102A E6 24 102C E8 35 00 102F 46 1030 43 1031 E8 0F 00 1034 8A 04 1036 E6 24 1038 46 1039 8A 04 1036 E6 24 1038 46 1039 8A 04 103B E6 20 103D E8 24 00 1040 E9 C2 FF 1043 8A 07 1045 E6 24 1047 43 1048 8A 07	START: REPEAT:	MOV OUT MOV MOV CALL MOV OUT CALL INC INC CALL MOV OUT CALL INC INC MOV OUT INC MOV OUT INC MOV OUT INC MOV OUT INC MOV	AL,80H CNTRL,AL BX,LOOK UP SI,LABEL OUT AL,[SI] PORTA,AL DELAY1 SI BX OUT AL,[SI] PORTB,AL DELAY1 SI BX OUT AL,[SI] PORTC,AL SI AL,[SI]

TRAFFIC LIGHT CONTROLLER

104A 104C 104D 104F 1051 1054 1055 1059 105D 105E 1060 1061 1063 1064 1068 106C 106D 106F 1070 1072 1073 1077	43 8A 07 E6 20 E8 01 00 C3 C7 C7 40 00 C7 C2 FF FF 4A 75 FD 4F 75 F6 C3 C7 C7 15 00 C7 C2 FF FF 4A	DELAY: A: A1: DELAY1: B: B1:	OUT INC MOV OUT CALL RET MOV MOV DEC JNZ DEC JNZ RET MOV MOV DEC JNZ RET MOV MOV DEC JNZ RET DEC JNZ RET DEC JNZ	PORTB,AL BX AL,[BX] PORTA,AL DELAY DI,00040H DX,0FFFFH DX A1 DI A DI,00015H DX,0FFFFH DX B1 DI B 12H,27H,44H,10H 2BH,92H,10H,9DH
1072 1073	C3 12 27 44 10	LOOK UP:	RET	12H,27H,44H,10H
107F 1083 107C	48 4B 20 49 04	LABEL:	DB END	48H,4BH,20H,49H 04H