

```

1
2  ORG 0000H
3  MOV P2,#00H      ;initially all ports are zero.
4  MOV P3,#00H
5
6
7      ; Start of main program
8  MAIN: SETB P2.2    ; TF line 2 Green led ON
9        SETB P3.2    ; TF line 4 Green led ON
10       SETB P2.3    ; TF line 1 Red led ON
11       SETB P3.3    ; TF line 3 Red led ON
12
13
14  MOV P1, #6FH      ; DISPLAY 9 OF 7SEG
15  ACALL DELAY      ;DELAY OF 1SEC
16  MOV P1, #7FH      ; DISPLAY 8 OF 7SEG
17  ACALL DELAY
18  MOV P1, #07H      ; DISPLAY 7 OF 7SEG
19  ACALL DELAY
20  MOV P1, #7DH      ; DISPLAY 6 OF 7SEG
21  ACALL DELAY
22  MOV P1, #6DH      ; DISPLAY 5 OF 7SEG
23  ACALL DELAY
24  MOV P1, #66H      ; DISPLAY 4 OF 7SEG
25  ACALL DELAY
26  MOV P1, #4FH      ; DISPLAY 3 OF 7SEG
27  ACALL DELAY
28  MOV P1, #5BH      ; DISPLAY 2 OF 7SEG
29  ACALL DELAY
30  MOV P1, #06H      ; DISPLAY 1 OF 7SEG
31  ACALL DELAY
32  MOV P1, #3FH      ; DISPLAY 0 OF 7SEG
33
34  SETB P2.4        ; TF line 1 Yellow led ON
35  SETB P3.4        ; TF line 3 Yellow led ON
36  CLR P2.3         ; TF line 1 Red led OFF
37  CLR P3.3         ; TF line 3 Red led OFF
38  ACALL DELAY2     ; Calling to the delay(3Sec)
39
40
41  MOV P2,#00H      ; clr ports data
42  MOV P3,#00H
43  SJMP MAIN2
44  MAIN2: SETB P2.5    ; TF line 1 green led ON
45        SETB P3.5    ; TF line 3 green led ON
46        SETB P2.0    ; TF line 2 red led ON
47        SETB P3.0    ; TF line 4 red led ON
48
49  MOV P1, #6FH      ; DISPLAY 9 OF 7SEG
50  ACALL DELAY      ;DELAY OF 1SEC
51  MOV P1, #7FH      ; DISPLAY 8 OF 7SEG
52  ACALL DELAY
53  MOV P1, #07H      ; DISPLAY 7 OF 7SEG
54  ACALL DELAY
55  MOV P1, #7DH      ; DISPLAY 6 OF 7SEG
56  ACALL DELAY
57  MOV P1, #6DH      ; DISPLAY 5 OF 7SEG
58  ACALL DELAY
59  MOV P1, #66H      ; DISPLAY 4 OF 7SEG
60  ACALL DELAY
61  MOV P1, #4FH      ; DISPLAY 3 OF 7SEG
62  ACALL DELAY
63  MOV P1, #5BH      ; DISPLAY 2 OF 7SEG
64  ACALL DELAY
65  MOV P1, #06H      ; DISPLAY 1 OF 7SEG
66  ACALL DELAY
67  MOV P1, #3FH      ; DISPLAY 0 OF 7SEG
68
69  SETB P2.1        ; TF line 2 yellow led ON
70  SETB P3.1        ; TF line 4 yellow led ON
71  CLR P2.0         ; TF line 1 Red led OFF
72  CLR P3.0         ; TF line 4 Red led OFF

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73      ACALL DELAY2      ; Calling to the delay(3Sec)
74
75      MOV P2,#00H      ; clr the ports
76      MOV P3,#00H
77      LJMP MAIN      ;jump to MAIN(INIFINITY)
78
79
80      ;DELAY2 FOR 1SECS
81      DELAY:MOV R5,#08H
82      UP2:  MOV R4,#0FFH
83      UP1:  MOV R3,#0FFH
84      HERE: DJNZ R3,HERE
85            DJNZ R4, UP1
86            DJNZ R5, UP2
87            RET
88
89      ;DELAY2 FOR 3SECS
90      DELAY2: MOV R0,#255D
91            H4: MOV R1,#142D
92            H5: MOV R2,#51D
93            H6: DJNZ R2,H6
94                  DJNZ R1, H5
95                  DJNZ R0, H4
96                  RET
97                  END
```