1. **DESIGN AN DOWNCOUNTER FROM 8 TO 0 IN A PATTERN OF 8 LEDS USING 8051 MICROCONTROLLER.**

MOV R0,#08H

MOV A,#08H

L1:MOV P1,A

ACALL DELAY

DEC A

DJNZ R0,L1

DELAY: MOV R1,#02H

L2:DJNZ R1,L2

RET

1. **ON D0 TO D7 BIT INDIVIDUALLY AND CONTINUOUSLY IN A PATTERN OF 8 LEDS USING 8051 MICROCONTROLLER.**

HERE:MOV A,#0FEH

ACALL DELAY

MOV A,#0FDH

ACALL DELAY

MOV A,#0FBH

ACALL DELAY

MOV A,#0F7H

ACALL DELAY

MOV A,#0EFH

ACALL DELAY

MOV A,#0DFH

ACALL DELAY

MOV A,#0BFH

ACALL DELAY

MOV A,#7FH

ACALL DELAY

SJMP HERE

DELAY:MOV P1,A

RET