

EXPERIMENT - 9

AIM:- TO MAKE A COUNTER (0-9) USING 8051 AND SEVEN SEGMENT DISPLAY.

CODE:-

ORG 0000H

MOV R0,#40H

MOV @R0,#3FH

INC R0

MOV @R0,#06H

INC R0

MOV @R0,#5BH

INC R0

MOV @R0,#4FH

INC R0

MOV @R0,#66H

INC R0

MOV @R0,#6DH

INC R0

MOV @R0,#7DH

INC R0

MOV @R0,#07H

INC R0

MOV @R0,#7FH

INC R0

MOV @R0,#67H

MOV P2,#00H

LOOP: MOV R0,#40H

MOV R2,#0AH

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LABEL: MOV A,@R0
MOV P2,A
ACALL DELAY
INC R0
DJNZ R2,LABEL
JMP LOOP

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DELAY: MOV R3,#15H
LABEL3:MOV R4,#200
LABEL2:MOV R5,#200
LABEL1:DJNZ R5,LABEL1
DJNZ R4,LABEL2
DJNZ R3,LABEL3
RET
END

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OUTPUT:-



