EXPERIMENT – 9

AIM: - To make a counter (0-9) using 8051 and seven segment display.

Code-

ORG 0000H

L1:MOV A,#3FH

MOV P2,A

ACALL DELAY

MOV A,#06H

MOV P2,A

ACALL DELAY

MOV A,#5BH

MOV P2,A

ACALL DELAY

MOV A,#4FH

MOV P2,A

ACALL DELAY

MOV A,#66H

MOV P2,A

ACALL DELAY

MOV A,#6DH

MOV P2,A

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        ACALL DELAY

        MOV A,#7DH

        MOV P2,A

        ACALL DELAY

        MOV A,#07H

        MOV P2,A

        ACALL DELAY

        MOV A,#7FH

        MOV P2,A

        ACALL DELAY

        MOV A,#67H

        MOV P2,A

        ACALL DELAY

        SJMP L1


DELAY:

        MOV R3,#15

L3:MOV R4,#200

L2:MOV R2,#200

L4:DJNZ R2,L4

        DJNZ R4,L2

        DJNZ R3,L3

        RET

        END
```

OUTPUT-