

PRACTICAL – 17

AIM: Implement a program to mask the lower four bits of content of the memory location

CODE:

org 100h

MOV [4000H], 00011100B

MOV AL, [4000H]

AND AL, 11110000B

MOV [4001H], AL

Ret

OUTPUT:

Address	Hex 1	Hex 2	Hex 3	Hex 4	Hex 5	Hex 6	Hex 7	Hex 8	Hex 9	Hex 10	Hex 11	Hex 12	Hex 13	Hex 14	Hex 15	Hex 16	ASCII
0700:4000	1C	10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.
0700:4070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.

CONCLUSION: In this practical we learnt how to mask bits of content of memory location.