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Experiment : 2

Aim : Store given 16 bit number at memory location 1000H

Software Use : GNUSim8085

Program :

----- program in asm -----

```
LXI B,0703H    ;Load 16bit value
LXI H,1000H    ;Load operand address
MOV M,B        ;Set first 8bit
INX H          ;Increment address
MOV M,C        ;Set last 8bit
HLT            ;Stop Program
```

----- end program -----

Applications : GNUSim8085 - 8085 MI...

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers

Register	Value
A	00
BC	07 03
DE	00 00
HL	10 01
PSW	00 00
PC	42 0A
SP	FF FF
Int-Reg	00

Flag

Flag	Value
S	0
Z	0
AC	0
P	0
C	0

Load me at

1
2
3 LXI B,0703H ;Load 8bit value
4 LXI H,1000H ;Load operand address
5 MOV M,B ;Set first 4bit
6 INX H ;Increment address
7 MOV M,C ;Set last 4bit
8
9 HLT ;Stop Program

Memory

Address (Hex)	Address	Data
1000	4096	7
1001	4097	3
1002	4098	0
1003	4099	0
1004	4100	0
1005	4101	0
1006	4102	0
1007	4103	0
1008	4104	0
1009	4105	0
100A	4106	0

Line No Assembler Message

0 Program assembled successfully

Simulator: Idle