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Experiment : 3

Aim : Exchange Contents of Memory locations 1000H and 1001H

Software Use : GNUSim8085

Program :

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

```
LXI B,1000H    ;Load first operand address
LXI D,1001H    ;Load second operand address
LDAX B         ;Load first value
MOV H,A
LDAX D         ;Load second value
STAX B         ;Store second value
MOV A,H
STAX D         ;Store second value
HLT           ;Stop Program
```

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

ApplicationsGNUSim8085 - 8085 Mi...01:04Rishabh Sarswa

GNUSim8085 - 8085 Microprocessor Simulator

FileResetAssemblerDebugHelp

Registers

Register	Value
A	07
BC	10 00
DE	10 01
HL	07 01
PSW	00 00
PC	42 0D
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

4

5

6

7

8

9

10

11

12

13

14

15

LXI B,1000H

LXI D,1001H

LDAX B

MOV H,A

LDAX D

STAX B

MOV A,H

STAX D

HLT

;Load first operand address

;Load second operand address

;Load first value

;Load second value

;Store second value

;Store second value

;Stop Program

Decimal - Hex Conversion

Decimal

Hex

0

0

→ To Hex

← To Dec

I/O Ports

0

+

00

Update Port Value

Memory

0

+

00

Update Memory

DataStackKeyPadMemoryI/O Ports

Start

1000h

OK

Address (Hex)	Address	Data
1000	4096	3
1001	4097	7
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