

25)SWAPPING OF 2 8BIT NUMBERS

Registers

A	0A	00	00	S	0
BC	00	00	00		
DE	0A	00	00	Z	0
HL	1E	00	00	AC	0
PSW	00	00	00		
PC	42	12	00	P	0
SP	FF	FF	FF	C	0

Decimal - Hex Conversion

Decimal

Hex

0

0

↔ To Hex

↔ To Dec

I/O Ports

0

-

+

00

@Update Port Value

Memory

0

-

+

00

@Update Memory

File

Reset

Assembler

Debug

Help

swapping of 2 8bit numbers

1

LOA

8000

2

MOV

B,

A

3

LOA

8001

4

MOV

D,

A

5

SCRG

6

MOV

A,

B

7

STA

8000

8

MOV

A,

D

9

STA

8001

10

HLT

Start

8000

OK

Address (Hex)	Address	Data
1F40	8000	30
1F41	8001	10
1F42	8002	0
1F43	8003	0
1F44	8004	0
1F45	8005	0
1F46	8006	0
1F47	8007	0
1F48	8008	0
1F49	8009	0
1F4A	8010	0
1F4B	8011	0
1F4C	8012	0
1F4D	8013	0

Line No

Assembler Message

0

Program assembled successfully

File

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1F4B	8011	0
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Line No

Assembler Message

0

Program assembled successfully