

25. Write an assembly language program to swap two 8-bit data using 8085 processor.

AIM:

To perform swap of two 8 bit numbers using 8085 processor.

PROGRAM:

LDA 2500

MOV B,A

LDA 2501

STA 2500

MOV A,B

STA 2051

HLT

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers

Register	Value
A	00
BC	00 00
DE	00 00
HL	00 00
PSW	00 00
PC	00 00
SP	00 00
Int-Reg	00

Flag

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

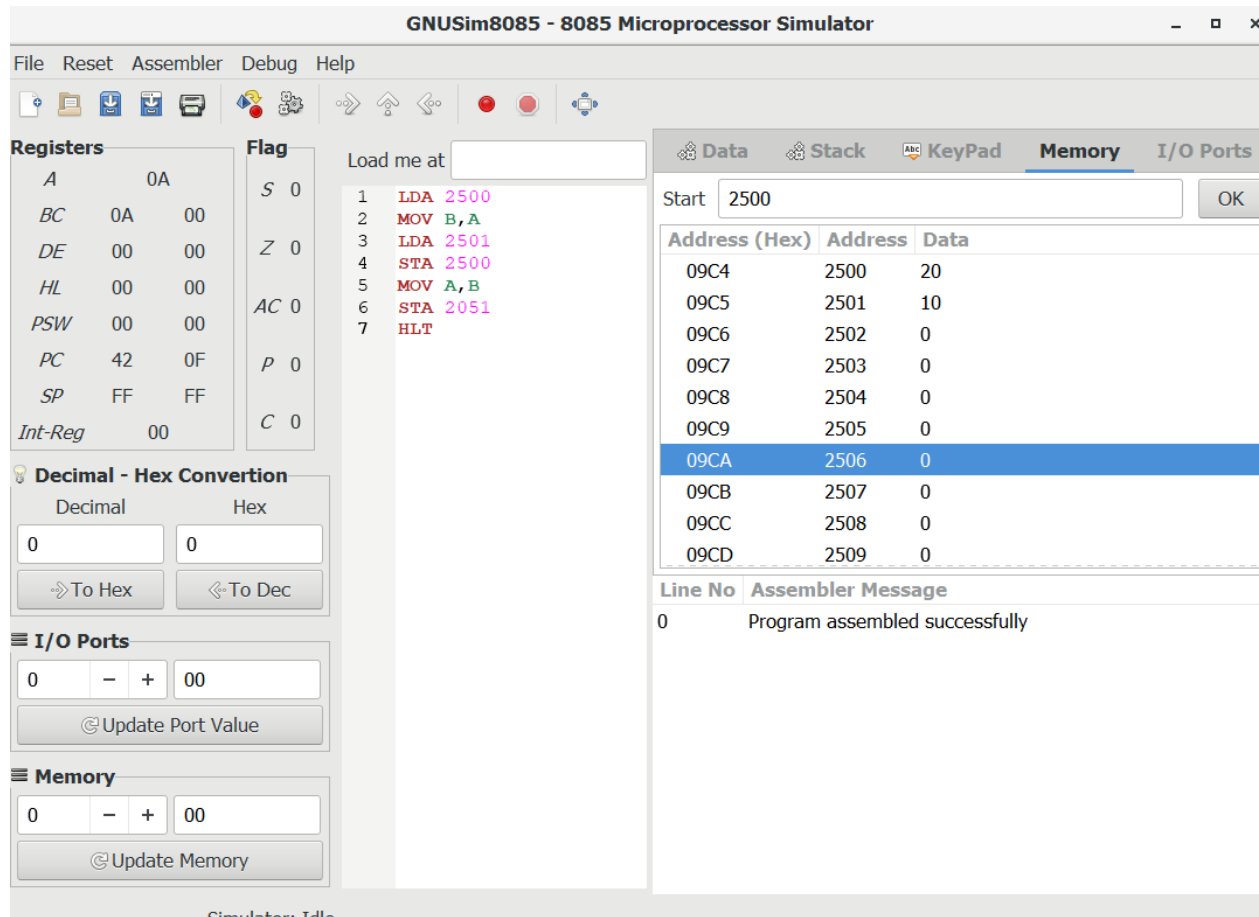
Load me at

1 LDA 2500
2 MOV B,A
3 LDA 2501
4 STA 2500
5 MOV A,B
6 STA 2051
7 HLT

Start 2500

Address (Hex)	Address	Data
09C4	2500	10
09C5	2501	20
09C6	2502	0
09C7	2503	0
09C8	2504	0
09C9	2505	0
09CA	2506	0
09CB	2507	0
09CC	2508	0
09CD	2509	0

Line No Assembler Message



OBSERVATION:

INPUT: 20(2500)

10(2501)

OUTPUT: 10(2500)

120(2501)

RESULT:

Thus the program for swapping of two 8 bit numbers was successfully executed.