

Experiment 3- Two 16 bit addition

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers

Register	Value
A	05
BC	00 00
DE	04 03
HL	05 08
PSW	00 00
PC	42 11
SP	FF FF
Int-Reg	00

Flag

Flag	Value
S	0
Z	0
AC	0
P	1
C	0

Load me at

```
1 LHLD 2500
2 XORG
3 LHLD 2504
4 MOV A,E
5 ADD L,A
6 MOV L,A
7 MOV A,D
8 ADC H
9 MOV H,A
10 SHLD 2508
11 HLT
```

Decimal - Hex Conversion

Decimal: 0 Hex: 0

To Hex To Dec

I/O Ports

0 - + 00

Update Port Value

Memory

0 - + 00

Update Memory

Start 2500 OK

Address (Hex)	Address	Data
09C4	2500	3
09C5	2501	4
09C6	2502	0
09C7	2503	0
09C8	2504	5
09C9	2505	1
09CA	2506	0
09CB	2507	0
09CC	2508	8
09CD	2509	5
09CE	2510	0
09CF	2511	0
09D0	2512	0
09D1	2513	0

Line No Assembler Message

0 Program assembled successfully

Simulator: Idle

Windows Taskbar: Type here to search, 24°C, 12:46, 12-01-2023