

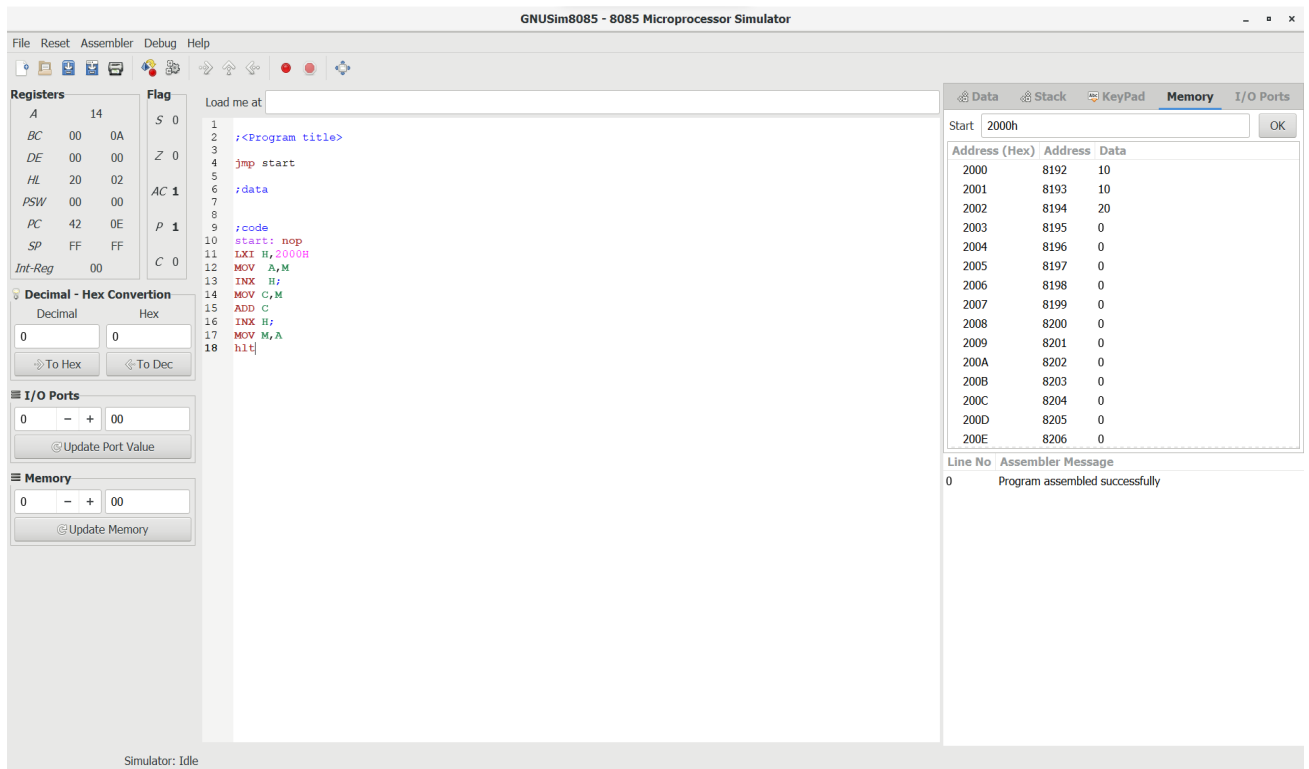
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Lab Assignment 1

1. Addition of 2 8-bit numbers



2. Addition of 2 16-bit numbers (with carry)

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers Flag Load me at

Register	Value	Flag	Value
A	00	S	0
BC	00 00	Z	0
DE	1F 1F	AC	0
HL	3E 3E	P	0
PSW	00 00	C	0
PC	42 16		
SP	FF FF		
Int-Reg	00		

Decimal - Hex Conversion

Decimal: 0 Hex: 0

To Hex To Dec

I/O Ports

0 - + 00

Update Port Value

Memory

0 - + 00

Update Memory

1 LHLD 3001H
2 XCHG
3 LHLD 3003H
4 DAD D
5 MVI C, 00H
6 JNC loop
7 INR C
8 loop: SHLD 3005H
9 MOV A, C
10 STA 3007H
11 HLT

Start 3001h OK

Address (Hex)	Address	Data
3001	12289	31
3002	12290	31
3003	12291	31
3004	12292	31
3005	12293	62
3006	12294	62
3007	12295	0
3008	12296	0
3009	12297	0
300A	12298	0
300B	12299	0
300C	12300	0
300D	12301	0
300E	12302	0
300F	12303	0

Line No Assembler Message

0 Program assembled successfully

Simulator: Idle