

Microprocessor Simulator

Jan 11 12:16 AM

Flag
09 S 0
00 Z 0
00 AC 0
00 P 1
FF C 0

Load me at

1 ;<8 BIT ADDITION>
2 LDA 8050
3 MOV B,A
4 LDA 8051
5 ADD B
6 STA 8052
7 HLT

- Hex Conversion
Hex
 0
 To Dec

+ 00

date Port Value

+ 00

update Memory

Data Stack KeyPad Memory I/O Ports OK

Start 8050

Address (Hex)	Address	Data
1F72	8050	4
1F73	8051	5
1F74	8052	9
1F75	8053	0
1F76	8054	0
1F77	8055	0
1F78	8056	0
1F79	8057	0
1F7A	8058	0
1F7B	8059	0
1F7C	8060	0
1F7D	8061	0

Line No Assembler Message
0 Program assembled successfully



Registers		
A	01	S 0
BC	09 00	Z 0
DE	00 00	
HL	00 00	
PSW	00 00	AC 0
PC	42 0C	P 0
SP	FF FF	
Int-Reg	00	C 0

i

Decimal - Hex Conversion

Decimal Hex

0	0
---	---

► To Hex

◀ To Dec

I/O Ports

0	-	+	00
---	---	---	----

Update Port Value

Memory

0	-	+	00
---	---	---	----

Update Memory

Load me at

```
1 ;<8 BIT SUBTRACTION>
2 LDA 8010
3 MOV B,A
4 LDA 8011
5 SUB B
6 STA 8012
7 HLT
```

Data Stack KeyPad Memory I/O Ports

Start 8010 OK

Address (Hex)	Address	Data
1F4A	8010	9
1F4B	8011	10
1F4C	8012	1
1F4D	8013	0
1F4E	8014	0
1F4F	8015	0
1F50	8016	0
1F51	8017	0
1F52	8018	0
1F53	8019	0
1F54	8020	0
1F55	8021	0

Line No Assembler Message

0 Program assembled successfully

Simulator: Idle



HP LV1911

**Flag****S 0****Z 1****AC 0****P 1****C 0****onversion**

Hex

0

To Dec

00

Port Value

00

Memory

Load meat

```

1 ;<8 BIT MULTIPLICATION>
2 LDA 8500
3 MOV B,A
4 LDA 8501
5 MOV C,A
6 CPI 00
7 JZ LOOP
8 XRA A
9 LOOP1: ADD B
10 DCR C
11 JZ LOOP
12 JMP LOOP1
13 LOOP: STA 8502
14 HLT

```

Data Slack KeyPad Memory Options

Start 8500

Address (Hex)	Address	Data
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2134	8500	5
2135	8501	6
2136	8502	30
2137	8503	0
2138	8504	0
2139	8505	0
213A	8506	0
213B	8507	0
213C	8508	0
213D	8509	0
213E	8510	0
213F	8511	0

Line No Assembler Message

0 Program assembled successfully

Simulator

Flag S 1 Z 0 AC 0 P 0 C 1 tation ex Dec

Load me at

1 ;<DIV>
2 LXI H, 1100
3 MOV B,M
4 MVI C, 00
5 INX H
6 MOV A,M
7 LOOP: CMP B
8 JC SKIP
9 SUB B
10 INR C
11 JMP LOOP
12 SKIP: STA 1102
13 MOV A,C
14 STA 1103
15 HLT

Data Stack KeyPad Memory I/O Ports

Start 1100

Address (Hex)	Address	Data
044C	1100	5
044D	1101	25
044E	1102	0
044F	1103	5
0450	1104	0
0451	1105	0
0452	1106	0
0453	1107	0
0454	1108	0
0455	1109	0
0456	1110	0
0457	1111	0

Line No Assembler Message
0 Program assembled successfully

8 5 1 9