

File Reset Assembler Debug Help



Registers

A	05	
BC	02	00
DE	00	00
HL	00	00
PSW	00	00
PC	42	0C
SP	FF	FF
Int-Reg	00	

Flag

S	0
Z	0
AC	0
P	1
C	0

Load me at

```
1 LDA 8050
2 MOV B,A
3 LDA 8051
4 ADD B
5 STA 8052
6 HLT
```

Decimal - Hex Conversion

Decimal

Hex

0

0

→ To Hex

← To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

8051

-

+

03

Update Memory

Data

Stack

KeyPad

Memory

I/O Ports

Start 8050

OK

Address (Hex)	Address	Data
1F72	8050	2
1F73	8051	3
1F74	8052	5
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	
BC	04	00
DE	00	00
HL	00	00
PSW	00	00
PC	42	0C
SP	FF	FF
Int-Reg	00	

Flag

S	0
Z	0
AC	0
P	0
C	0

Load me at

```

1  LDA 8000
2  MOV B,A
3  LDA 8001
4  SUB B
5  STA 8002
6  RST 1

```

Decimal - Hex Conversion

Decimal

Hex

0	0
→ To Hex	← To Dec

I/O Ports

0	-	+	00
Update Port Value			

Memory

8001	-	+	05
Update Memory			

Start 8000

OK

Address (Hex)	Address	Data
1F40	8000	4
1F41	8001	5
1F42	8002	1
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

Line No Assembler Message

0 Program assembled successfully



Registers			Flag	
A	03		S	1
BC	02	03	Z	0
DE	00	00	AC	0
HL	00	00	P	0
PSW	00	00	C	1
PC	42	18		
SP	FF	FF		
Int-Reg	00			

Decimal - Hex Conversion

Decimal	Hex
<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="button" value="→ To Hex"/>	<input type="button" value="← To Dec"/>

I/O Ports

<input type="text" value="0"/>	<input type="button" value="-"/>	<input type="button" value="+"/>	<input type="text" value="00"/>
<input type="button" value="Update Port Value"/>			

Memory

<input type="text" value="8501"/>	<input type="button" value="-"/>	<input type="button" value="+"/>	<input type="text" value="06"/>
<input type="button" value="Update Memory"/>			

Load me at

```
1  START: NOP
2  LDA 8500
3  MOV B,A
4  LDA 8501
5  MVI C,00
6  LOOP: CMP B
7  JC LOOP1
8  SUB B
9  INR C
10 JMP LOOP
11 LOOP1: STA 8502
12 MOV A,C
13 STA 8503
14 RST 1
15 HLT
```

Data Stack KeyPad **Memory** I/O PortsStart

Address (Hex)	Address	Data
2134	8500	2
2135	8501	6
2136	8502	0
2137	8503	3
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

File Reset Assembler Debug Help



Registers			Flag	
A	0A		S	0
BC	05	03	Z	0
DE	00	00	AC	0
HL	00	00	P	1
PSW	00	00	C	0
PC	42	17		
SP	FF	FF		
Int-Reg	00			

Decimal - Hex Conversion

Decimal	Hex
<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="button" value="→ To Hex"/>	<input type="button" value="← To Dec"/>

I/O Ports

<input type="text" value="0"/>	-	+	<input type="text" value="00"/>
<input type="button" value="Update Port Value"/>			

Memory

<input type="text" value="3054"/>	-	+	<input type="text" value="05"/>
<input type="button" value="Update Memory"/>			

Load me at

```
1 LDA 3050
2 MOV B,A
3 LDA 3051
4 ADD B
5 STA 3052
6 LDA 3053
7 MOV B,A
8 LDA 3054
9 ADC B
10 STA 3055
11 HLT
```

Data Stack Keypad **Memory** I/O PortsStart

OK

Address (Hex)	Address	Data
0BEA	3050	2
0BEB	3051	3
0BEC	3052	5
0BED	3053	5
0BEE	3054	5
0BEF	3055	10
0BF0	3056	0
0BF1	3057	0
0BF2	3058	0
0BF3	3059	0
0BF4	3060	0
0BF5	3061	0

Line No	Assembler Message
0	Program assembled successfully

File Reset Assembler Debug Help



Registers

A	02
BC	00 00
DE	00 04
HL	00 08
PSW	00 00
PC	42 16
SP	FF FF
Int-Reg	00

Flag

S	0
Z	1
AC	0
P	1
C	0

Load me at

```

1  LDA 2200
2  MOV E,A
3  MVI D,00
4  LDA 2201
5  MOV C,A
6  LXI H,0000
7  BACK: DAD D
8  DCR C
9  JNZ BACK
10 SHLD 2202
11 HLT

```

Decimal - Hex Conversion

Decimal

Hex

→ To Hex

← To Dec

I/O Ports

 -

Update Port Value

Memory

 -

Update Memory

Data

Stack

KeyPad

Memory

I/O Ports

Start 2200

OK

Address (Hex)	Address	Data
0898	2200	4
0899	2201	2
089A	2202	8
089B	2203	0
089C	2204	0
089D	2205	0
089E	2206	0
089F	2207	0
08A0	2208	0
08A1	2209	0
08A2	2210	0
08A3	2211	0

Line No Assembler Message

0 Program assembled successfully



Registers

A	00
BC	00 00
DE	00 03
HL	00 02
PSW	00 00
PC	42 14
SP	FF FF
Int-Reg	00

Flag

S	0
Z	1
AC	0
P	1
C	0

Load me at

```
1  LHLD 2050
2  XCHG
3  LHLD 2052
4  MVI C,00
5  MOV A,E
6  SUB L
7  STA 2054
8  MOV A,D
9  SUB H
10 STA 2055
11 HLT
```

Decimal - Hex Conversion

Decimal

Hex

→ To Hex

← To Dec

I/O Ports

Update Port Value

Memory

Update Memory

Data Stack Keypad **Memory** I/O PortsStart

OK

Address (Hex)	Address	Data
0802	2050	3
0803	2051	0
0804	2052	2
0805	2053	0
0806	2054	1
0807	2055	0
0808	2056	0
0809	2057	0
080A	2058	0
080B	2059	0
080C	2060	0
080D	2061	0

Line No Assembler Message

0 Program assembled successfully

File Reset Assembler Debug Help



Registers

A	00
BC	00 00
DE	00 00
HL	00 00
PSW	00 00
PC	42 22
SP	00 0A
Int-Reg	00

Flag

S	0
Z	1
AC	0
P	1
C	0

Load me at

```

1  LHLD 2050
2  SPHL
3  LHLD 2052
4  XCHG
5  LXI H,0000
6  LXI B,0000
7  AGAIN: DAD SP
8  JNC START
9  INX B
10 START: DCX D
11 MOV A,E
12 ORA D
13 JNZ AGAIN
14 SHLD 2054
15 MOV L,C
16 MOV H,B
17 SHLD 2055
18 HLT

```

Data Stack KeyPad Memory I/O Ports

Start 2050

OK

Address (Hex)	Address	Data
0802	2050	10
0803	2051	0
0804	2052	5
0805	2053	0
0806	2054	50
0807	2055	5
0808	2056	0
0809	2057	0
080A	2058	0
080B	2059	0
080C	2060	0

Decimal - Hex Conversion

Decimal

Hex

0

0

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

2054

-

+

50

Update Memory

Line No Assembler Message

0 Program assembled successfully

Activate Windows
Go to Settings to activate Windows.



Registers

A	0A
BC	02 0A
DE	00 00
HL	00 00
PSW	00 00
PC	42 1A
SP	FF FF
Int-Reg	00

Flag

S	1
Z	0
AC	0
P	0
C	1

Load me at

```
1 LDA 8500
2 MOV B,A
3 LDA 8501
4 MVI C,00
5 LOOP: CMP B
6 JC LOOP1
7 SUB B
8 INR C
9 JMP LOOP
10 LOOP1: STA 8502
11 MOV A,C
12 STA 8503
13 HLT
```

Decimal - Hex Conversion

Decimal

Hex

To Hex

To Dec

I/O Ports

Update Port Value

Memory

Update Memory

Data

Stack

Keypad

Memory

I/O Ports

Start 8500

OK

Address (Hex)	Address	Data
2134	8500	2
2135	8501	20
2136	8502	0
2137	8503	10
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