

GNUSim8085 - 8085 Microprocessor Simulator

FileResetAssemblerDebugHelp

Registers

A78

BC0006

DE0078

HL0000

PSW0000

PC421F

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

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;<Program title>

2;

3;

4jmp start

5;

6;data

7;

8;

9;code

10start: nop

11LDA 2001

12MOV B,A

13MVI C,#01

14MVI E,#01

15LOOP: MOV D,C

16MVI A,00H

17LP: ADD E

18DCR D

19JNZ LP

20MOV E,A

21INR C

22DCR B

23JNZ LOOP

24MOV A,E

25STA 2010

26HLT

DataStackKeyPadMemoryI/O Ports

Start2001OK

Address (Hex)	Address	Data
07D1	2001	5
07D2	2002	0
07D3	2003	0
07D4	2004	0
07D5	2005	0
07D6	2006	0
07D7	2007	0
07D8	2008	0
07D9	2009	0
07DA	2010	120
07DB	2011	0
07DC	2012	0
07DD	2013	0
07DE	2014	0

Line No	Assembler Message
0	Program assembled successfully

Simulator: Idle

AFG - PNGLive

Search

14-06-2024

08:45

FileResetAssemblerDebugHelp

Registers

A1A

BC0000

DE0078

HL080A

PSW0000

PC4219

SPFFFF

Int-Reg00

S0

Z1

AC0

P1

C0

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

Load me at

1;<Program title>

2;

3;

4jmp start

5;

6;data

7;

8;

9;

10;code

11start: nop

12LXI H,2050

13MOV C,M

14DCR C

15INX H

16MOV A,M

17LOOP1: INX H

18CMP M

19JNC LOOP

20MOV A,M

21LOOP: DCR C

22JNZ LOOP1

23STA 2050

24HLT

DataStackKeyPadMemoryI/O Ports

Start2050OK

Address (Hex)	Address	Data
0802	2050	8
0803	2051	6
0804	2052	12
0805	2053	16
0806	2054	24
0807	2055	26
0808	2056	0
0809	2057	0
080A	2058	26
080B	2059	0
080C	2060	0
080D	2061	0
080E	2062	0
080F	2063	0

Line No	Assembler Message
0	Program assembled successfully

Simulator: Idle

85°FMostly cloudy

Search

14-06-2024

08:48

FileResetAssemblerDebugHelp

Registers

A05

BC0005

DE0000

HL0805

PSW0000

PC4219

SPFFFF

Int-Reg00

Flag

S0

Z0

AC0

P1

C1

Decimal - Hex Conversion

Decimal

0

Hex

0

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

0

-

+

00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

Load me at

1;<Program title>

2;

3;

4jmp start

5;

6;data

7;

8;

9;code

10start: nop

11LXI H, 2050

12MOV C, M

13DCR C

14INX H

15MOV A, M

16LOOP1: INX H

17CMP M

18JC LOOP

19MOV A, M

20LOOP: DCR C

21JNC LOOP1

22STA 2058

23HLT

DataStackKeyPadMemoryI/O Ports

Start2050OK

Address (Hex)	Address	Data
0802	2050	8
0803	2051	10
0804	2052	5
0805	2053	25
0806	2054	17
0807	2055	9
0808	2056	0
0809	2057	0
080A	2058	5
080B	2059	0
080C	2060	0
080D	2061	0
080E	2062	0
080F	2063	0

Line No	Assembler Message
0	Program assembled successfully

Simulator: Idle

85°F  
Mostly cloudy

Search

Windows Taskbar Icons

ENG  
IN

08:57  
14-06-2024

System Tray Icons

FileResetAssemblerDebugHelp

Registers

A00

BC0A00

DE0000

HL0D B1

PSW0000

PC4222

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

0

-

+

00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

Load me at

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

<Program title>

jmp start

:data

:code

start: nop

LOOP: LXI H, 3500

MVI D, 00

MVI C, 05

LOOP1: MOV A, M

INX H

CMP M

JC LOOP2

MOV B, M

MOV M, A

DCX H

MOV M, B

INX H

MVI D, 01

LOOP2: DCR C

JNZ LOOP1

MOV A, D

RRC

JC LOOP

HLT

DataStackKeyPadMemoryI/O Ports

Start3500OK

Address (Hex)	Address	Data
0DAC	3500	5
0DAD	3501	9
0DAE	3502	10
0DAF	3503	16
0DB0	3504	19
0DB1	3505	24
0DB2	3506	0
0DB3	3507	0
0DB4	3508	0
0DB5	3509	0
0DB6	3510	0
0DB7	3511	0
0DB8	3512	0
0DB9	3513	0

Line No	Assembler Message
0	Program assembled successfully

Simulator: Idle

85°F  
Mostly cloudy

Search

ENG  
IN

09:01  
14-06-2024

File Reset Assembler Debug Help

Registers			Flag
<i>A</i>	00		<i>S</i> 0
<i>BC</i>	14	00	
<i>DE</i>	00	00	<i>Z</i> <b>1</b>
<i>HL</i>	0D	B1	
<i>PSW</i>	00	00	<i>AC</i> 0
<i>PC</i>	42	22	
<i>SP</i>	FF	FF	<i>P</i> <b>1</b>
<i>Int-Reg</i>	00		<i>C</i> 0

Load me at

```

1
2 ;<Program title>
3
4 jmp start
5
6 ;data
7
8
9 ;code
10 start: nop
11         LOOP: LXI H,3500
12         MVI D,0
13         MVI C,05
14         LOOP1: MOV A,M
15                 INX H
16                 CPE M
17                 JNC LOOP2
18                 MOV B,M
19                 MOV M,A
20                 DCX H
21                 MOV M,B
22                 INX H
23                 MVI D,01
24                 LOOP2: DCR C
25                 JNZ LOOP1
26                 MOV A,D
27                 RRC
28                 JC LOOP
29                 HLT

```

### 💡 Decimal - Hex Conversion

Decimal	Hex
0	0
To Hex	To Dec


## I/O Ports

0

-





+

00

 Update Port Value

## Memory

0 - + 00  
Ⓢ Update Memory

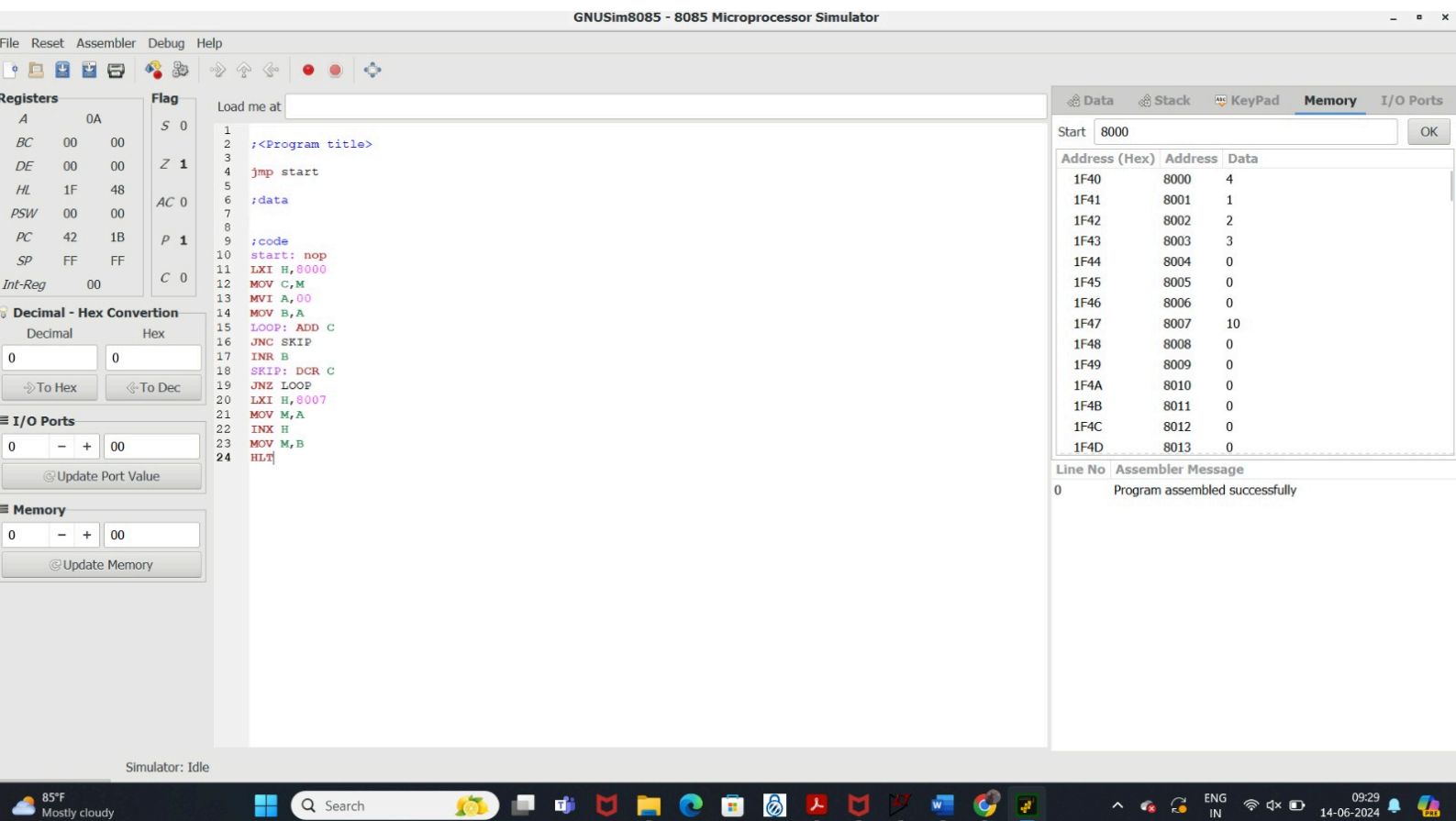
 Data
  Stack
  Keypad
 **Memory**
 I/O Ports

Start 3500 OK

Address (Hex)	Address	Data
0DAC	3500	20
0DAD	3501	19
0DAE	3502	12
0DAF	3503	9
0DB0	3504	7
0DB1	3505	4
0DB2	3506	0
0DB3	3507	0
0DB4	3508	0
0DB5	3509	0
0DB6	3510	0
0DB7	3511	0
0DB8	3512	0
0DB9	3513	0

Line No	Assembler Message
0	Program assembled successfully

Simulator: Idle



FileResetAssemblerDebugHelp

Registers

A07

BC0705

DE0000

HL0CEB

PSW0000

PC4214

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

Load me at

1;<Program title>

2;

3;

4jmp start

5;

6;data

7;

8;

9;code

10start: nop

11LDA 2001

12MOV B,A

13LDA 2002

14MOV C,A

15STA 2003

16MOV A,B

17STA 2004

18HLT

DataStackKeyPadMemoryI/O Ports

Start2001OK

Address (Hex)	Address	Data
07D1	2001	7
07D2	2002	5
07D3	2003	5
07D4	2004	7
07D5	2005	0
07D6	2006	0
07D7	2007	0
07D8	2008	0
07D9	2009	0
07DA	2010	0
07DB	2011	0
07DC	2012	0
07DD	2013	0
07DE	2014	0

Line No	Assembler Message
0	Program assembled successfully

Simulator: Idle

Breaking news  
Supreme Court r...

Search

Windows icons

ENG  
IN

22:43  
14-06-2024

System tray icons

FileResetAssemblerDebugHelp

Registers

A31

BC0005

DE0000

HL1F40

PSW0000

PC4212

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

→ To Hex

← To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

Load me at

1<Program title>

2

3

4jmp start

5

6;data

7

8

9

10;code

11start: nop

12LXI H,8000

13XRA A

14MOV B,M

15LOOP: ADD M

16DCR B

17JNZ LOOP

18STA 8001

19HLT

DataStackKeyPadMemoryI/O Ports

Start8000OK

Address (Hex)	Address	Data
1F40	8000	7
1F41	8001	49
1F42	8002	0
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
1F4C	8012	0
1F4D	8013	0

Line No

Assembler Message

0Program assembled successfully

Simulator: Idle

87°FPartly cloudy

Search

ENG IN

22:4614-06-2024