



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

8500	-	+	02
------	---	---	----

Update Memory

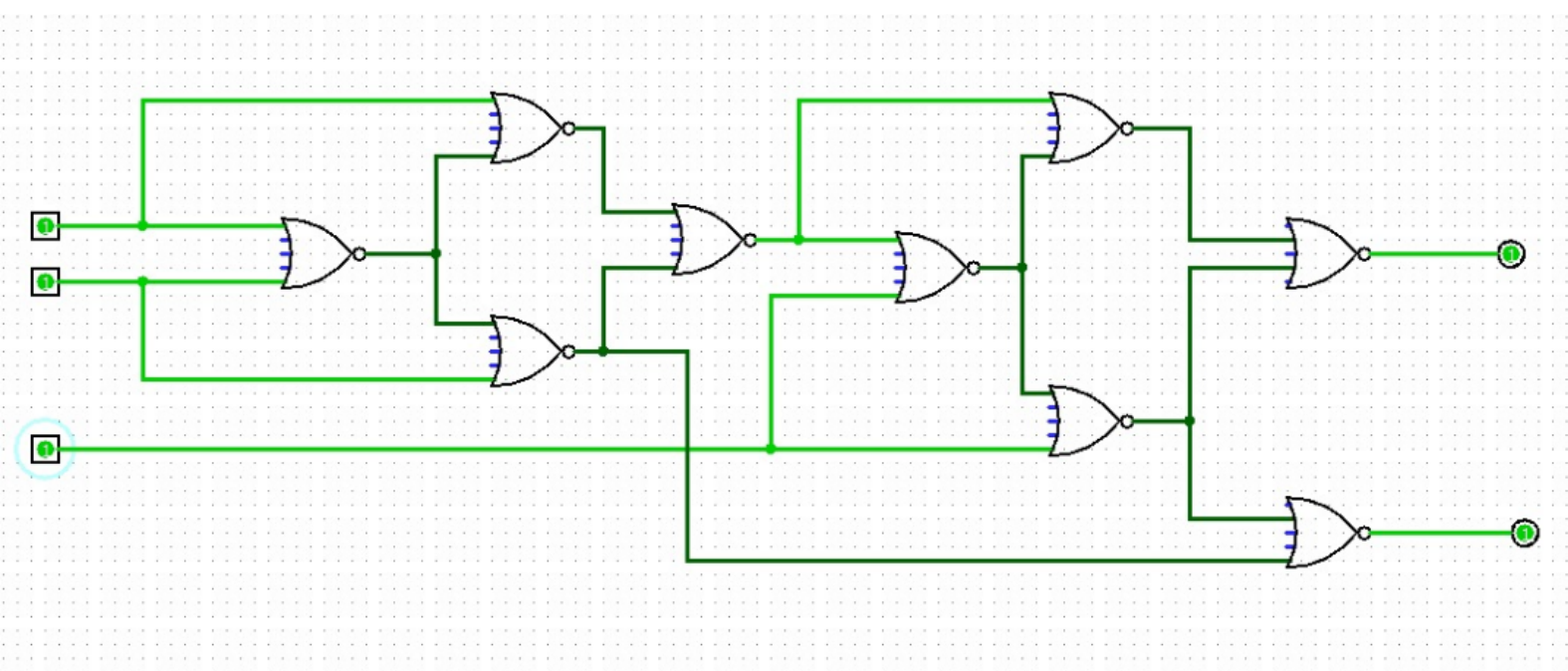
 Data Stack Keypad **Memory** I/O Ports

Start	8500
-------	------

OK

Address (Hex)	Address	Data
2134	8500	2
2135	8501	4
2136	8502	2
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



FileResetAssemblerDebugHelp

Registers

A04

BC0000

DE0006

HL0018

PSW0000

PC4216

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Load me at

1LDA 2200

2MOV E, A

3MVI D, 00

4LDA 2201

5MOV C, A

6LXI H, 0000

7BACK: JAD D

8DCR C

9JNZ BACK

10SHLD 2202

11HLT

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

2200-+06

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

DataStackKeyPadMemoryI/O Ports

Start2200OK

Address (Hex)	Address	Data
0898	2200	6
0899	2201	4
089A	2202	24
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
08A4	2212	0
08A5	2213	0

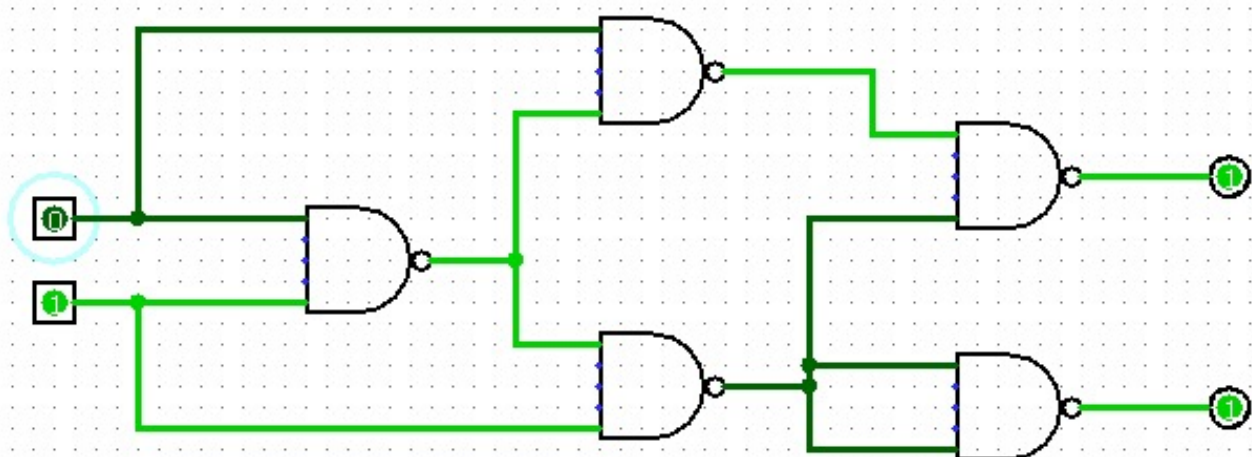
Line NoAssembler Message

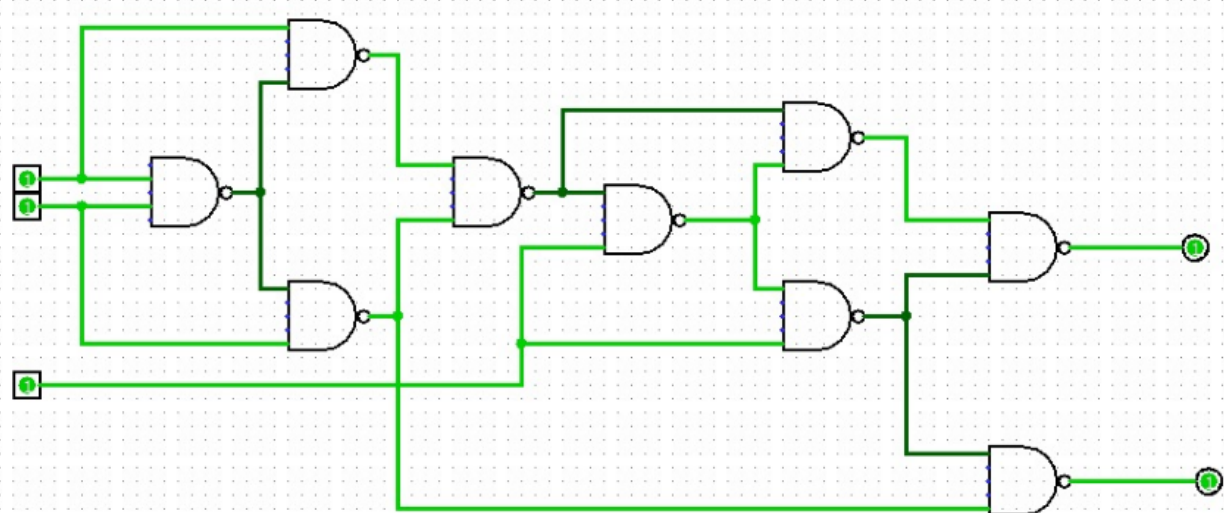
0Program assembled successfully

Simulator: Idle

3:37 PM2/6/2025

ENG IN





FileResetAssemblerDebugHelp

Registers

A00

BC0004

DE0000

HL0004

PSW0000

PC4222

SP0202

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

1LJLH 2050H

2SPHL

3LJLH 2052H

4XCHG

5LXI H,0000H

6LXI B,0000H

7LOOP: DAD SP

8JNC NEXT

9INX B

10NEXT: DCK D

11MOV A,E

12ORA D

13JNZ LOOP

14SHLD 2054H

15MOV I,C

16MOV H,B

17SHLD 2056H

18HLT

DataStackKeyPadMemoryI/O Ports

Start2050hOK

Address (Hex)	Address	Data
2050	8272	2
2051	8273	2
2052	8274	2
2053	8275	2
2054	8276	4
2055	8277	8
2056	8278	4
2057	8279	0
2058	8280	0
2059	8281	0
205A	8282	0
205B	8283	0
205C	8284	0
205D	8285	0

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

Search

ENGINTL2:34 PM25/02/2025