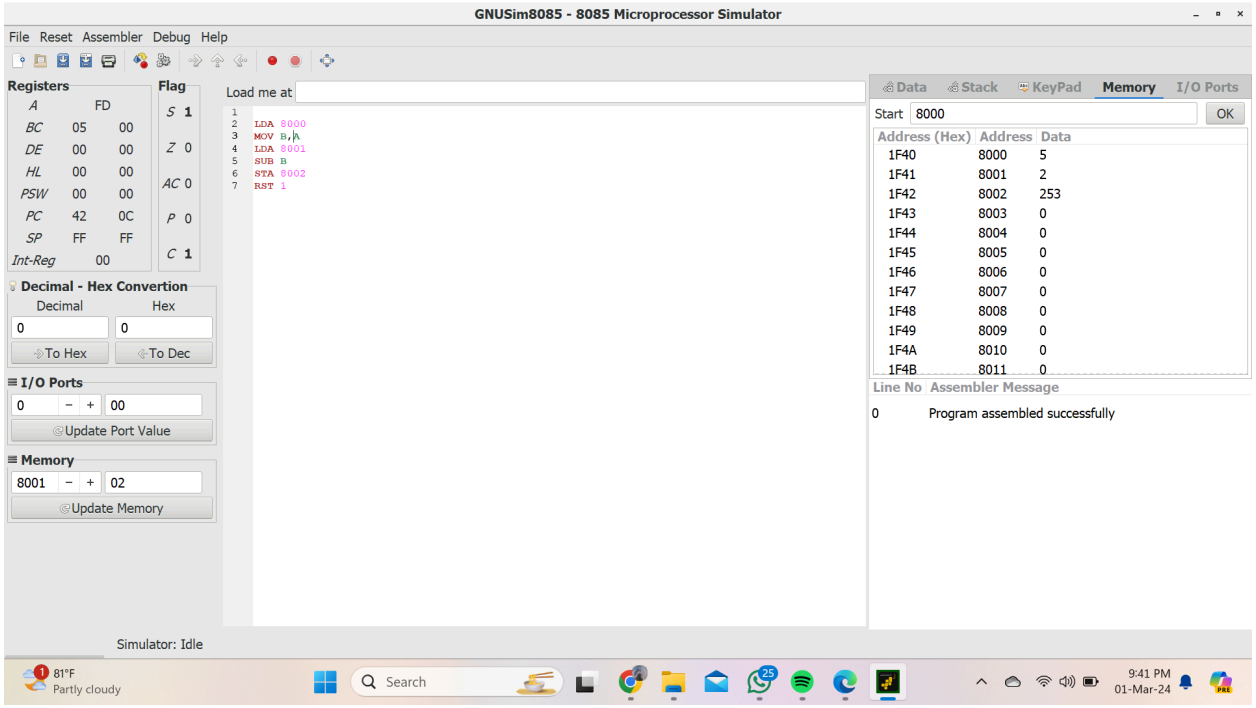
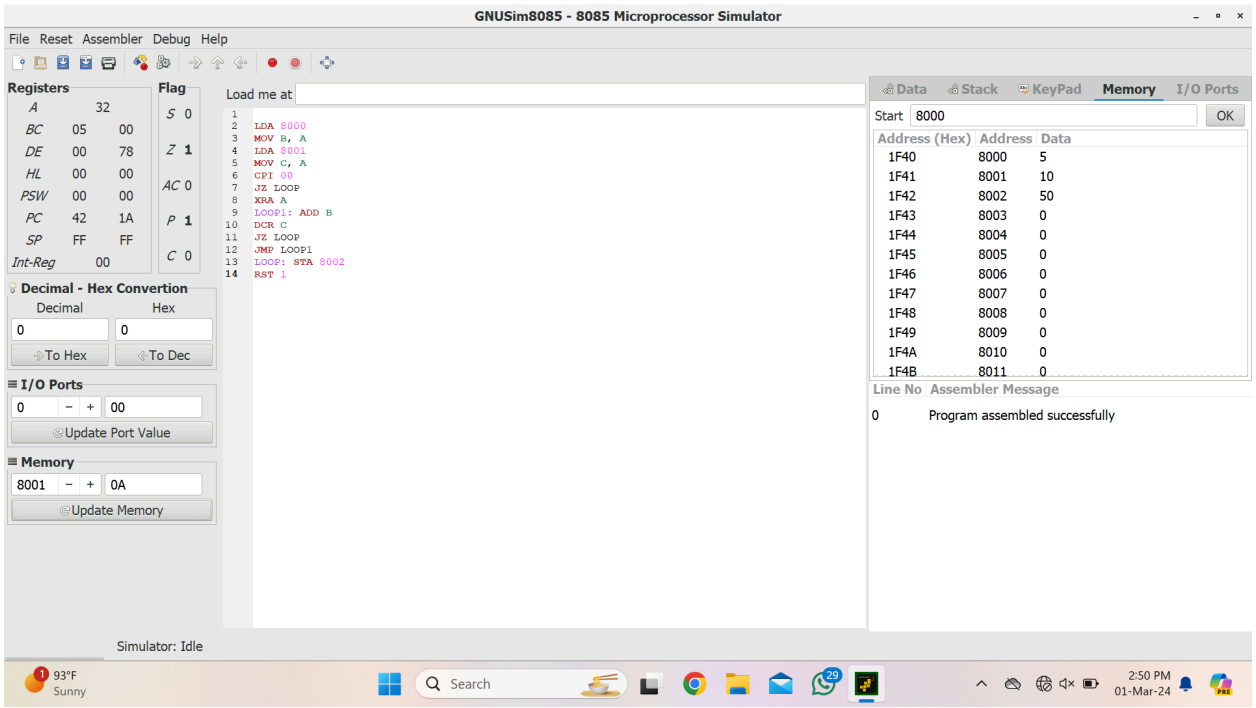
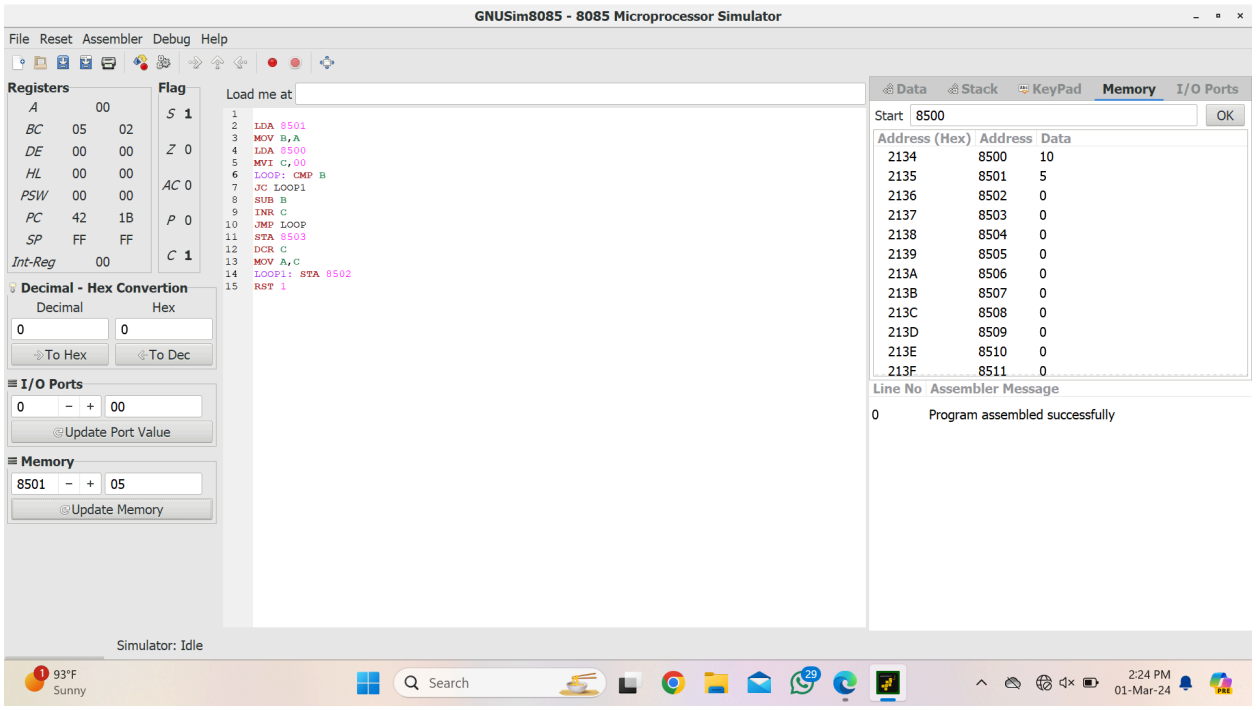
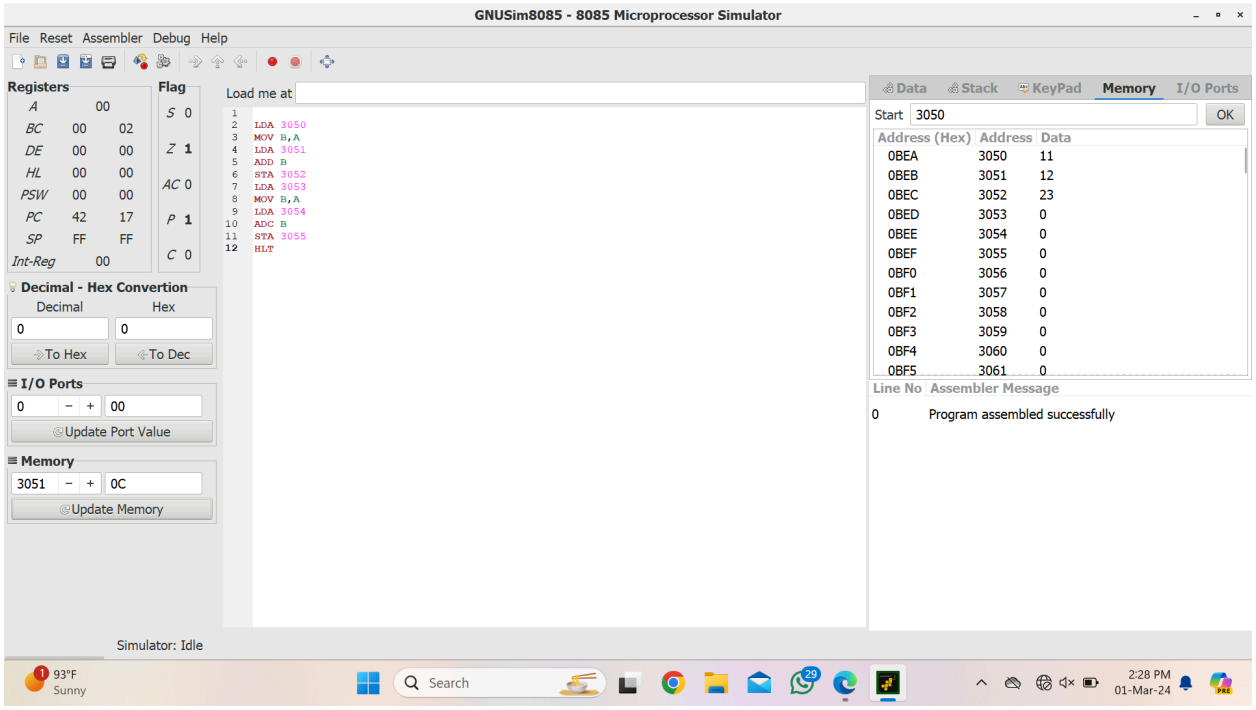
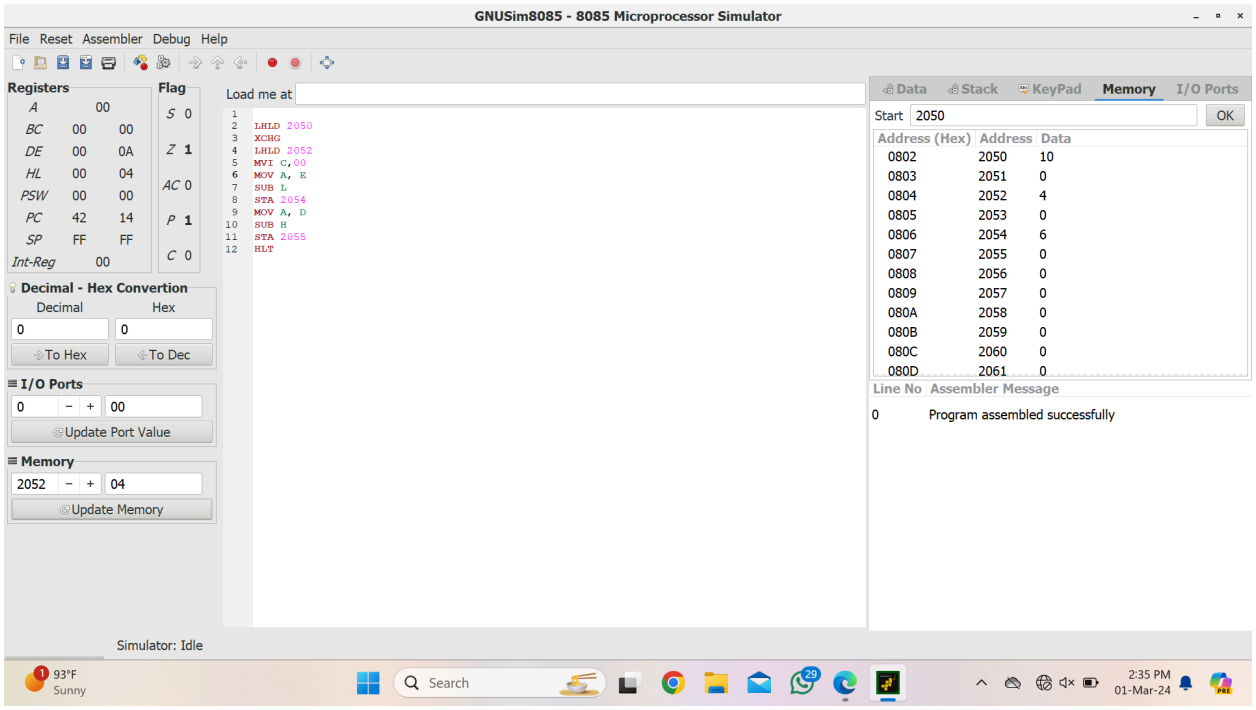
DAY 1-EXPERIMENTS 1-10

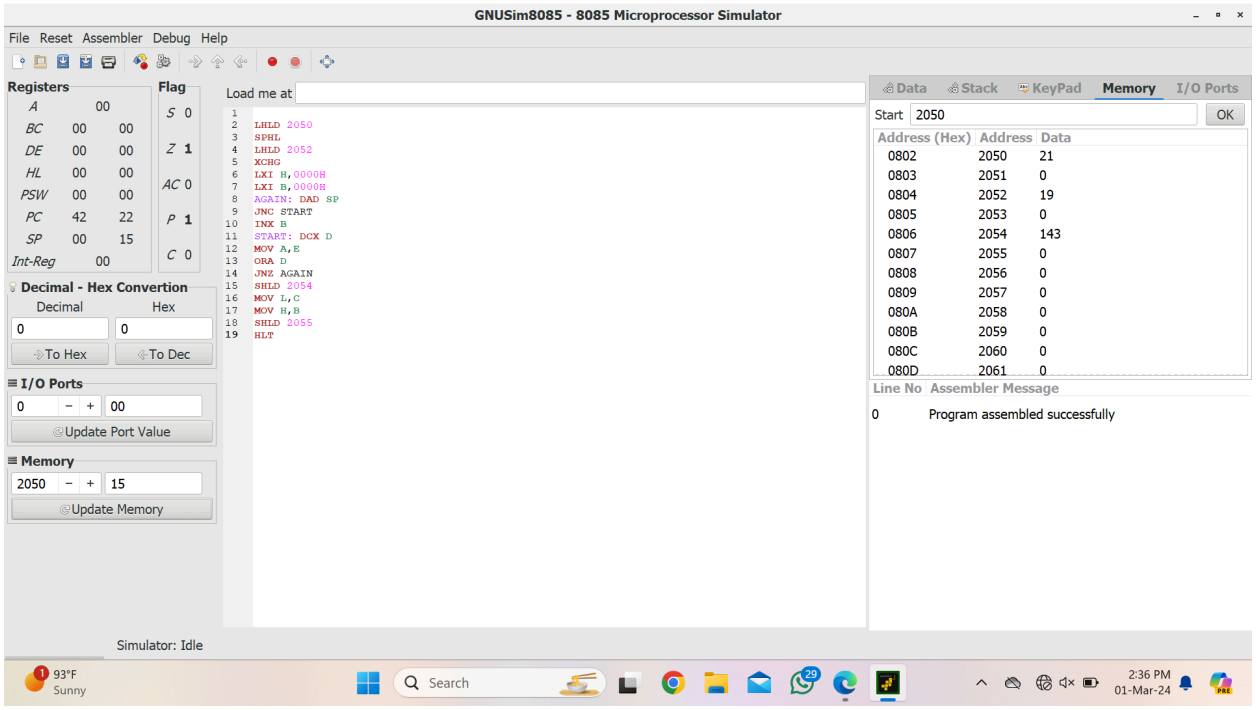


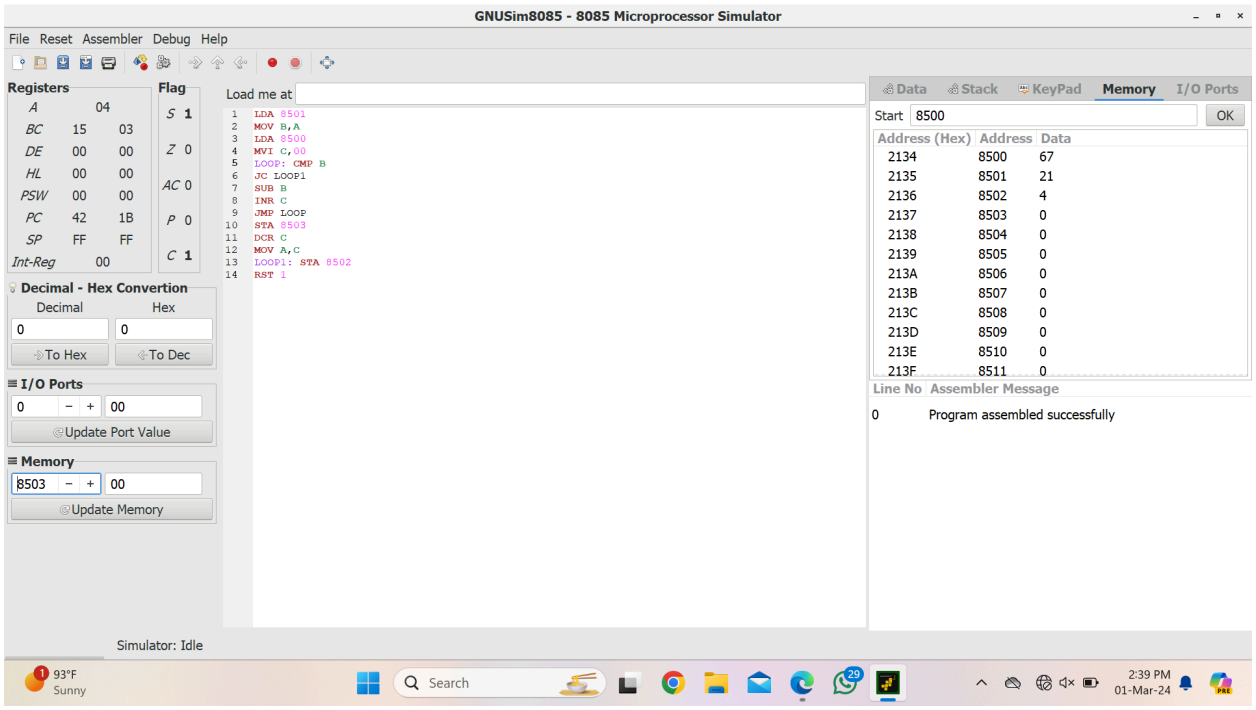


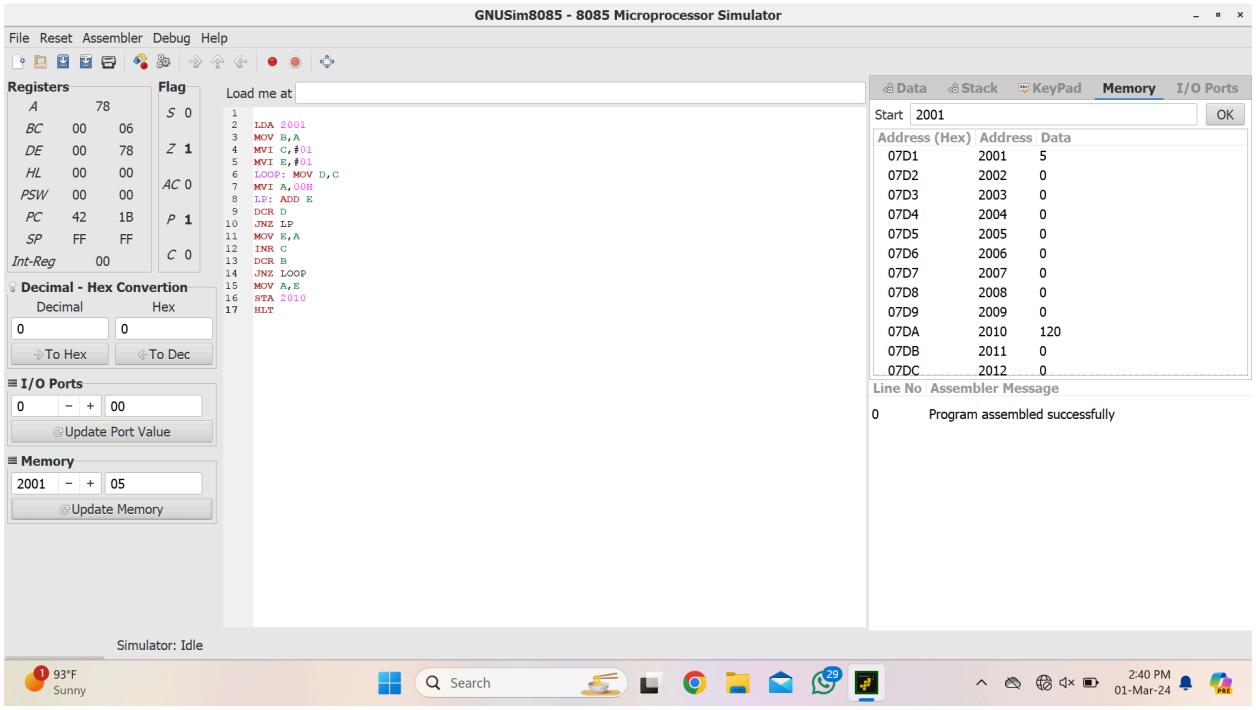

GNUSim8085 - 8085 Microprocessor Simulator
File Reset Assembler Debug Help
Registers
A 00
BC 05 02
DE 00 00
HL 00 00
PSW 00 00
PC 42 1B
SP FF FF
Int-Reg 00
Flag
S 1
Z 0
AC 0
P 0
C 1
Decimal - Hex Convertion
Decimal
Hex
0
0
To Hex
To Dec
I/O Ports
0
00
Update Port Value
Memory
8501
05
Update Memory
Load me at
1
2 LDA 8501
3 MOV B,A
4 LDA 8500
5 MVI C,00
6 LOOP: CMP B
7 JC LOOP1
8 SUB B
9 INR C
10 JMP LOOP
11 STA 8503
12 DCR C
13 MOV A,C
14 LOOP1: STA 8502
15 RST 1
Data Stack KeyPad Memory I/O Ports
Start 8500
OK
Address (Hex) Address Data
2134 8500 10
2135 8501 5
2136 8502 0
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: Idle
93°F Sunny
Search
2:24 PM 01-Mar-24


GNUSim8085 - 8085 Microprocessor Simulator
File Reset Assembler Debug Help
Registers
A 00
BC 00 02
DE 00 00
HL 00 00
PSW 00 00
PC 42 17
SP FF FF
Int-Reg 00
Flag
S 0
Z 1
AC 0
P 1
C 0
Decimal - Hex Convertion
Decimal
Hex
0
0
To Hex
To Dec
I/O Ports
0
00
Update Port Value
Memory
3051
0C
Update Memory
Load me at
1
2 LDA 3050
3 MOV B,A
4 LDA 3051
5 ADD B
6 STA 3052
7 LDA 3053
8 MOV B,A
9 LDA 3054
10 ADC B
11 STA 3055
12 HLT
Data Stack KeyPad Memory I/O Ports
Start 3050
OK
Address (Hex) Address Data
0BEA 3050 11
0BEB 3051 12
0BEC 3052 23
0BED 3053 0
0BEE 3054 0
0BEF 3055 0
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
Simulator: Idle
93°F Sunny
Search
2:28 PM 01-Mar-24


GNUSim8085 - 8085 Microprocessor Simulator
File Reset Assembler Debug Help
Registers
A 00
BC 00 00
DE 00 0A
HL 00 04
PSW 00 00
PC 42 14
SP FF FF
Int-Reg 00
Flag
S 0
Z 1
AC 0
P 1
C 0
Decimal - Hex Convertion
Decimal Hex
0 0
To Hex To Dec
I/O Ports
0 00
Update Port Value
Memory
2052 04
Update Memory
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
Data Stack KeyPad Memory I/O Ports
Start 2050 OK
Address (Hex) Address Data
0802 2050 10
0803 2051 0
0804 2052 4
0805 2053 0
0806 2054 6
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
Simulator: Idle
93°F Sunny
Search
2:35 PM 01-Mar-24


GNUSim8085 - 8085 Microprocessor Simulator
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 15
Int-Reg 00
Flag
S 0
Z 1
AC 0
P 1
C 0
Decimal - Hex Convertion
Decimal Hex
0 0
To Hex To Dec
I/O Ports
0 00
Update Port Value
Memory
2050 15
Update Memory
Load me at
1 LHLD 2050
2 SPHL
3 LHLD 2052
4 XCHG
5 LXI H,0000H
6 LXI B,0000H
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 21
0803 2051 0
0804 2052 19
0805 2053 0
0806 2054 143
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
Simulator: Idle
93°F Sunny
Search
2:36 PM 01-Mar-24


GNUSim8085 - 8085 Microprocessor Simulator
File Reset Assembler Debug Help
Registers
A 04
BC 15 03
DE 00 00
HL 00 00
PSW 00 00
PC 42 1B
SP FF FF
Int-Reg 00
Flag
S 1
Z 0
AC 0
P 0
C 1
Decimal - Hex Convertion
Decimal
Hex
0
0
To Hex
To Dec
I/O Ports
0
00
Update Port Value
Memory
8503
00
Update Memory
Load me at
1 LDA 8501
2 MOV B,A
3 LDA 8500
4 MVI C,00
5 LOOP: CMP B
6 JC LOOP1
7 SUB B
8 INR C
9 JMP LOOP
10 STA 8503
11 DCR C
12 MOV A,C
13 LOOP1: STA 8502
14 RST 1
Data Stack KeyPad Memory I/O Ports
Start 8500
OK
Address (Hex) Address Data
2134 8500 67
2135 8501 21
2136 8502 4
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: Idle
93°F Sunny
Search
2:39 PM 01-Mar-24


GNUSim8085 - 8085 Microprocessor Simulator
File Reset Assembler Debug Help
Registers
A 78
BC 00 06
DE 00 78
HL 00 00
PSW 00 00
PC 42 1B
SP FF FF
Int-Reg 00
Flag
S 0
Z 1
AC 0
P 1
C 0
Decimal - Hex Convertion
Decimal
Hex
0
0
To Hex
To Dec
I/O Ports
0
00
Update Port Value
Memory
2001
05
Update Memory
Load me at
1
2 LDA 2001
3 MOV B,A
4 MVI C,#01
5 MVI E,#01
6 LOOP: MOV D,C
7 MVI A,00H
8 LP: ADD E
9 DCR D
10 JNZ LP
11 MOV E,A
12 INR C
13 DCR B
14 JNZ LOOP
15 MOV A,E
16 STA 2010
17 HLT
Data Stack KeyPad Memory I/O Ports
Start 2001
OK
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
Line No Assembler Message
0 Program assembled successfully
Simulator: Idle
93°F Sunny
Search
2:40 PM 01-Mar-24