

Lab 7

CS 256 Data Communication Lab B23CS029

Shyam pandey

1. Write an assembly language program in 8085 microprocessor to check whether the given number is even or odd

LDA 2000h

ANI 01h

JZ EVEN

MVI A,01h

STA 2002h

JMP END

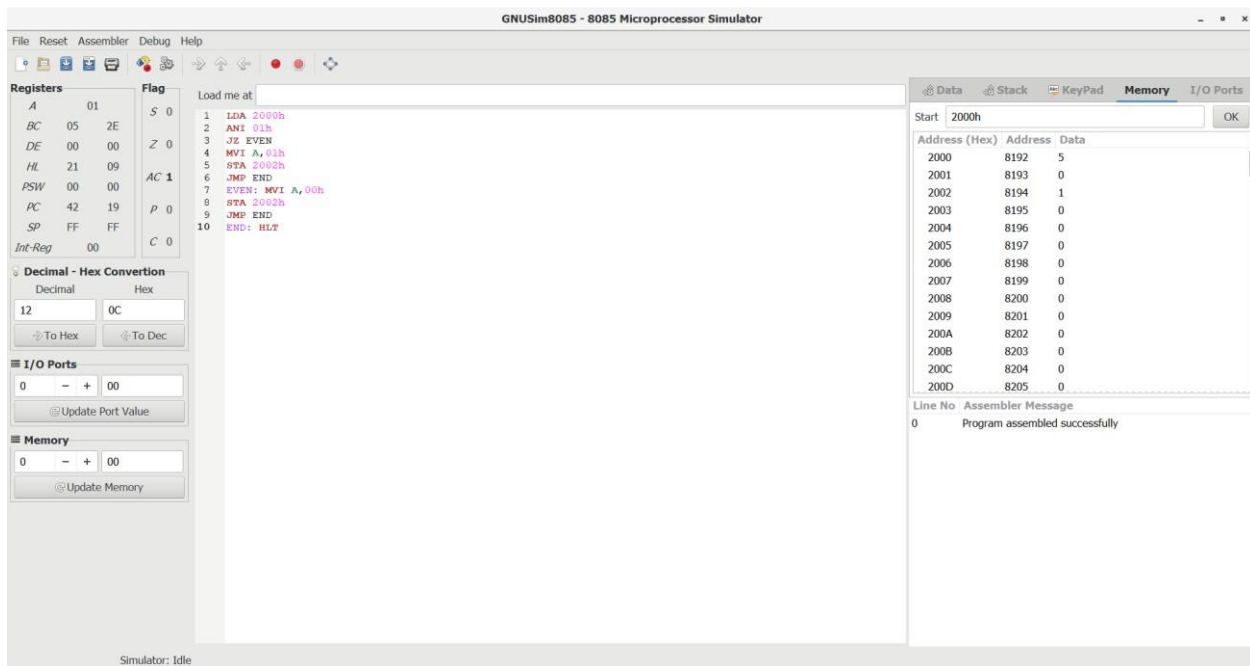
EVEN: MVI A,00h

STA 2002h

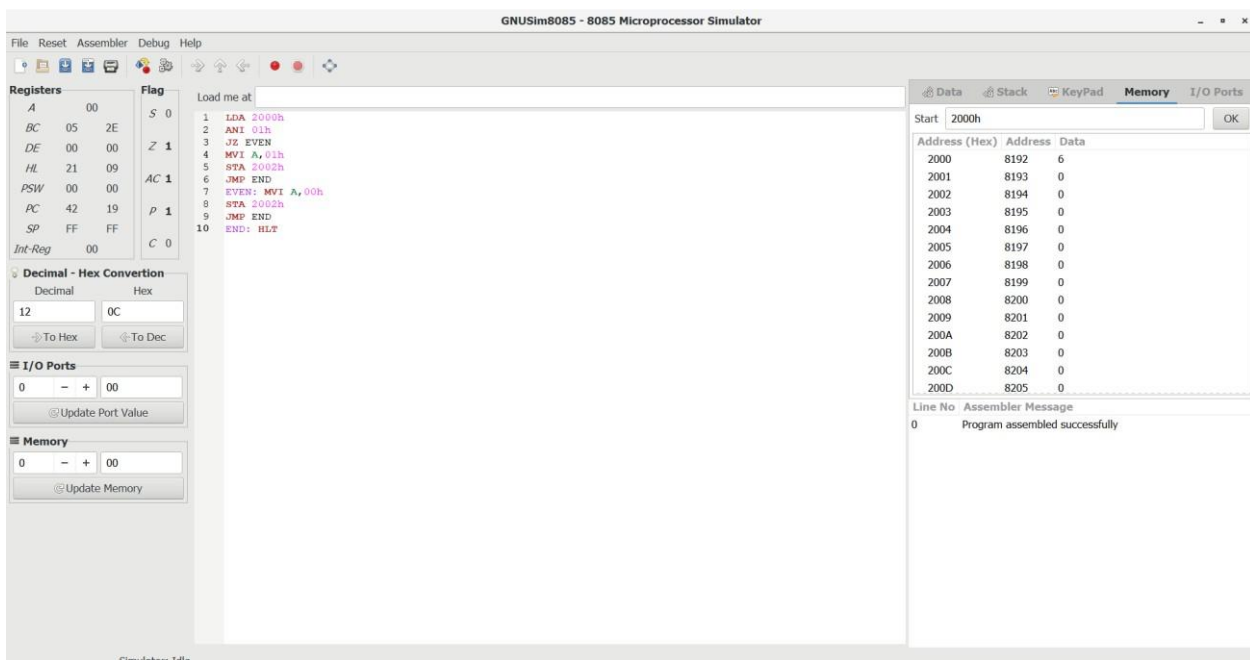
JMP END

END: HLT

-Odd



-Even



2. Write an assembly language program in 8085 microprocessor to convert a hexadecimal number into ASCII code.

LDA 2000h

CPI 0Ah

JC AHEAD

ADI 07h

AHEAD: ADI 30h

STA 2002h

HLT

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers

Register	Value
A	37
BC	00 00
DE	00 00
HL	00 00
PSW	00 00
PC	42 10
SP	FF FF
Int-Reg	00

Flag

Flag	Value
S	0
Z	0
AC	0
P	0
C	0

Load me at

```
1 LDA 2000h
2 CPI 0Ah
3 JC AHEAD
4 ADI 07h
5 AHEAD: ADI 30h
6 STA 2002h
7 HLT
```

Decimal - Hex Conversion

Decimal: 0 Hex: 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 2000h OK

Address (Hex)	Address	Data
2000	8192	7
2001	8193	0
2002	8194	55
2003	8195	0
2004	8196	0
2005	8197	0
2006	8198	0
2007	8199	0
2008	8200	0
2009	8201	0
200A	8202	0
200B	8203	0
200C	8204	0
200D	8205	0

Line No Assembler Message

0 Program assembled successfully

Simulator: Idle