AIM:
To compute various logical operations
using 8085 processor.

ALGORITHM:

1) Load data to accumulator.

2) Load another data in register

3) Perform logical operations like AND, OR and XOR (Use ANA, ORA, XRA) with the accumulator content.

4) Store the result in specified memory location.

PROGRAM:

AND OPERATION:

MVI A,06

MVI B,04

ANA B

STA 2500

HLT

OR OPERATION:

MVI A,07

MVI B,06

ORA B

STA 2000

HLT

XOR OPERATION:

MVI A,03

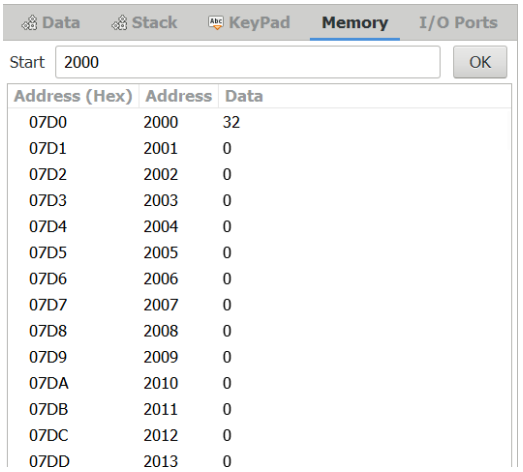
MVI B,08

XRA B

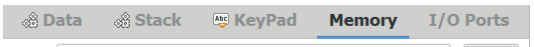
STA 2000

HLT

INPUT:



Address (Hex)	Address	Data
07D0	2000	32
07D1	2001	0
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	0
07DB	2011	0
07DC	2012	0
07DD	2013	0



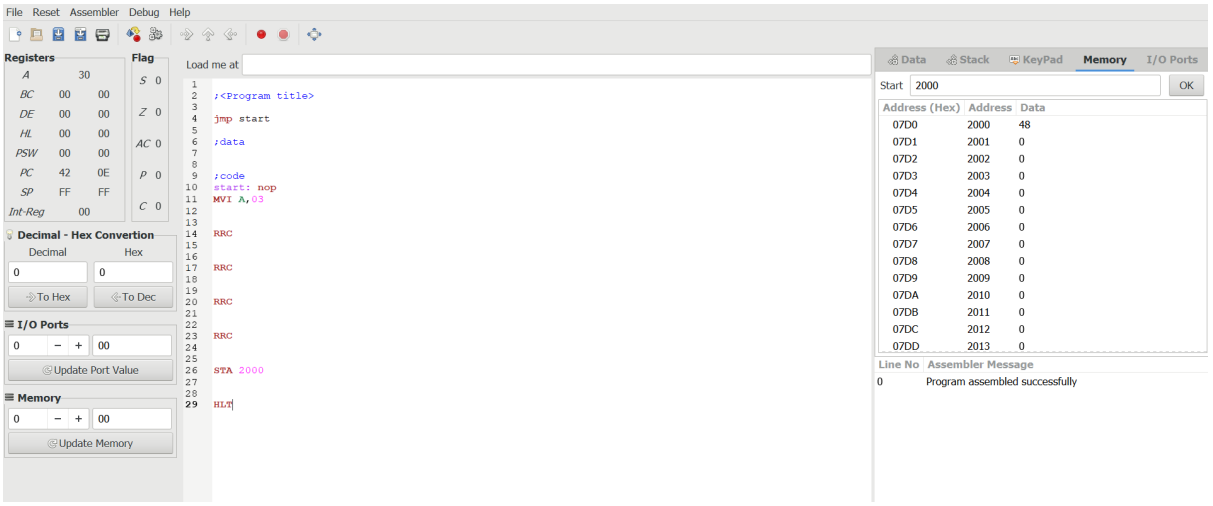
Address (Hex)	Address	Data
07D0	2000	11
07D1	2001	0
07D2	2002	0
07D3	2003	0
07D4	2004	0
07D5	2005	0
07D6	2006	0
07D7	2007	0
07D8	2008	0
07D9	2009	0
07DA	2010	0
07DB	2011	0
07DC	2012	0
07DD	2013	0

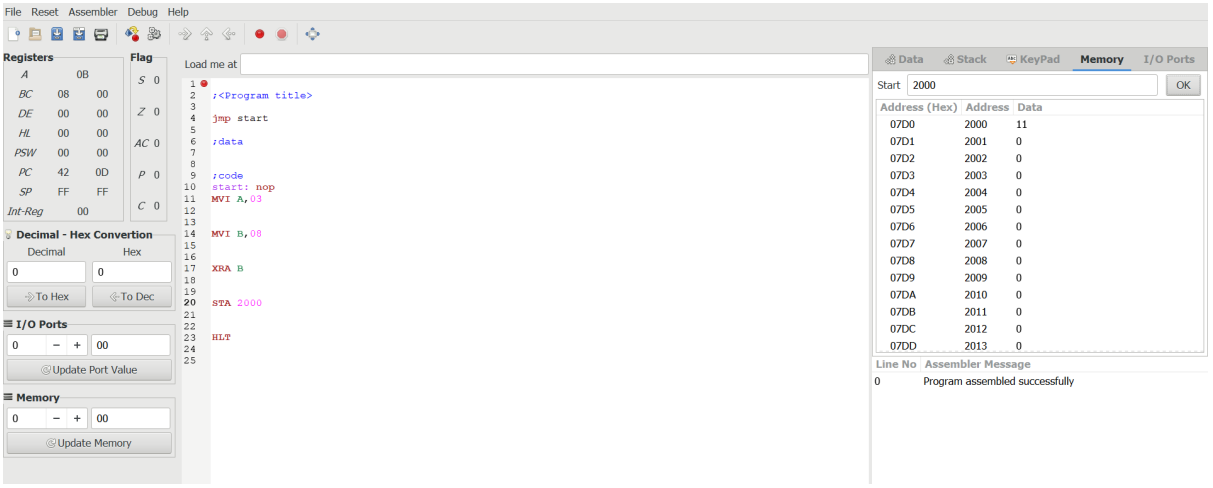
Data | Stack | KeyPad | **Memory** | I/O Ports

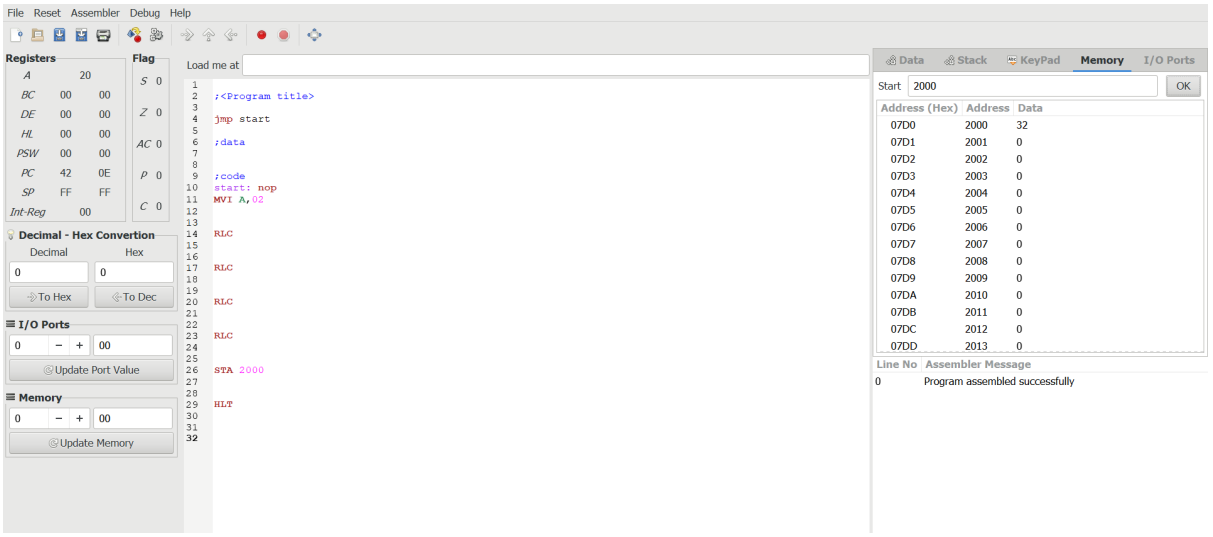
Start 2000 OK

Address (Hex)	Address	Data
07D0	2000	48
07D1	2001	0
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	0
07DB	2011	0
07DC	2012	0
07DD	2013	0

OUTPUT:







RESULT: Thus the program was executed successfully using 8085 processor simulator.