

LOGICAL OPERATIONS

EXP NO: 20

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

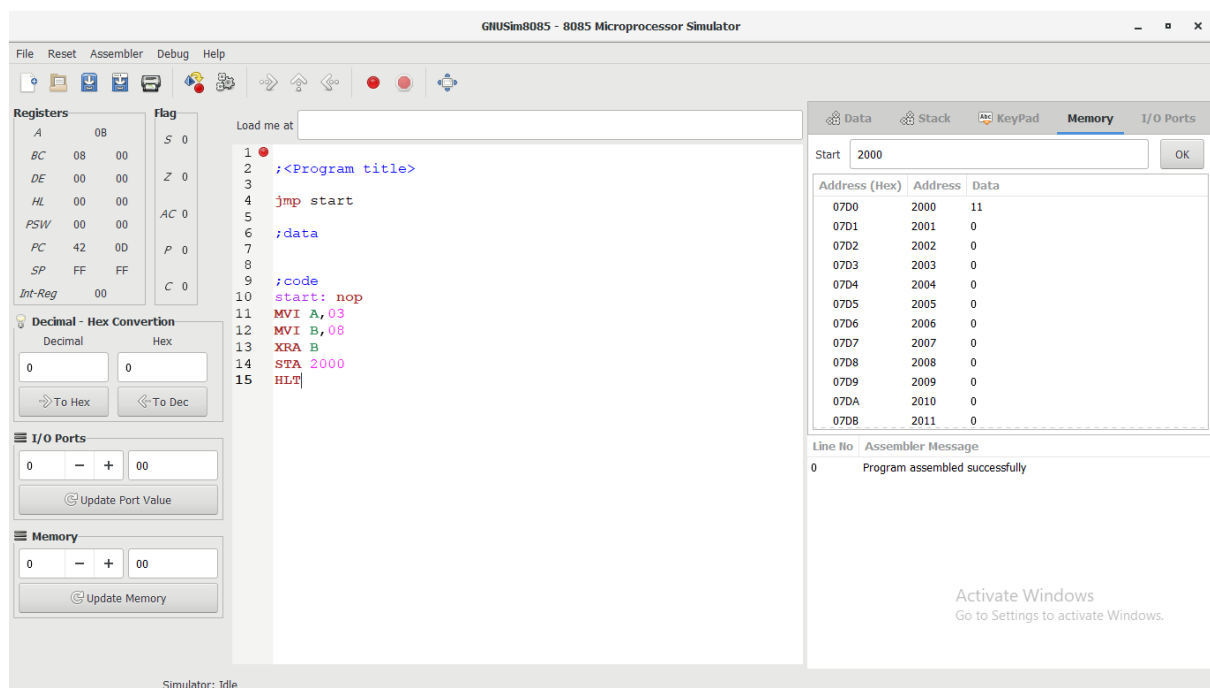
XRA
B

STA
2000

HLT

INPUT:

OUTPUT:



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