# LOGICAL OPERATIONS

4)

EXP NO	D: 20
<b>AIM:</b> To compute various logical operations using 8085 processor.	
ALGORITHM:	
1)	Load data to accumulator.
2)	Load another data in register
	Perform logical operations like AND, OR and XOR (Use ANA, RA) with the accumulator content.

Store the result in specified memory location.

# PROGRAM: AND OPERATION: MIVI A,06 MIVI B,04 ANA B STA 2500

# OR OPERATION:

MVI

HLT

A,07

MVI

B,06

ORA

В

STA 2000

HLT

## XOR OPERATION:

MVI

A,03

MVI B,08

XRA

В

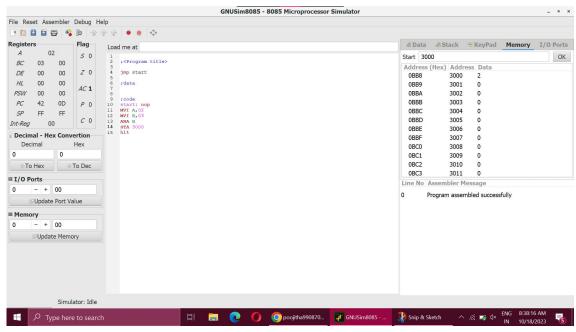
STA

2000

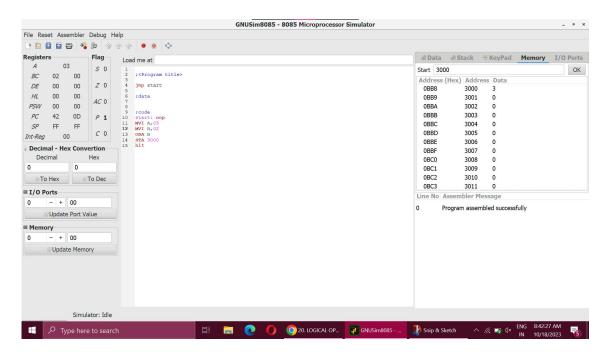
HLT

### INPUT:

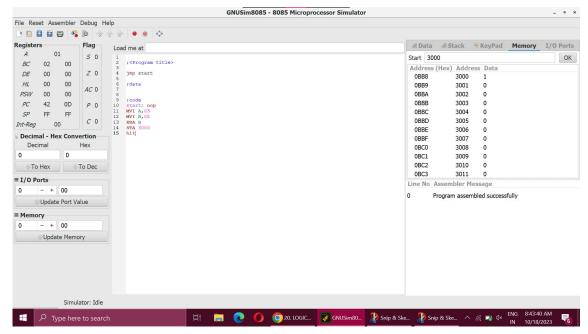
### AND OPERATION:



### OR OPERATION:

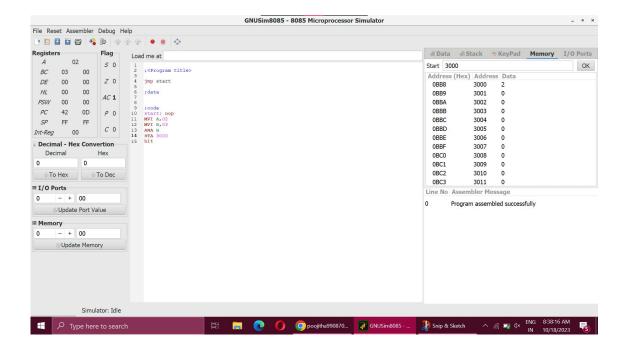


### **XOR OPERATION:**

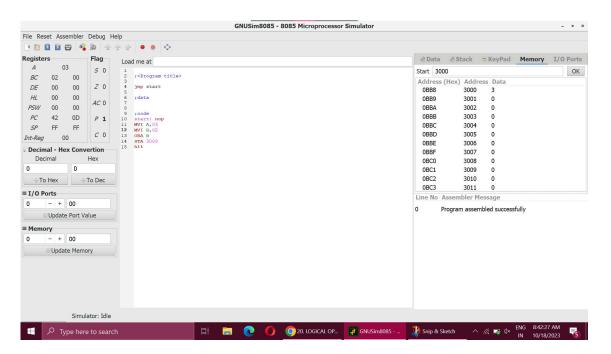


**OUTPUT:** 

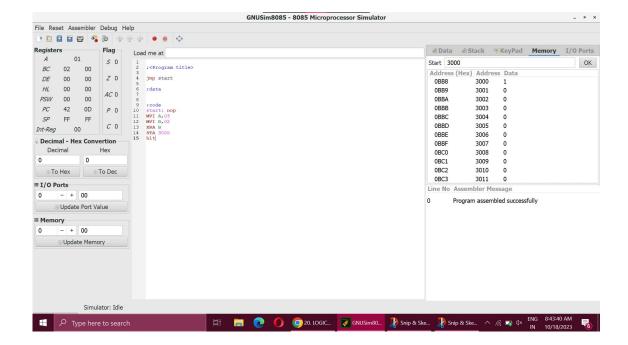
AND OPERATION:



### **OR OPERATION:**



### XOR OPERATION:



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