LOGICAL OPERATIONS

EXP NO: 20
AIM: To compute various logical operations using the 8085 processor.
ALGORITHM:
 Load data to the accumulator. Load another data in register Perform logical operations like AND, OR and XOR (Use ANA,ORA, XRA) with the accumulator content. Store the result in a 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:

AND OPERATION:

```
MVI A,06
MVI B,04
```

OR OPERATION:

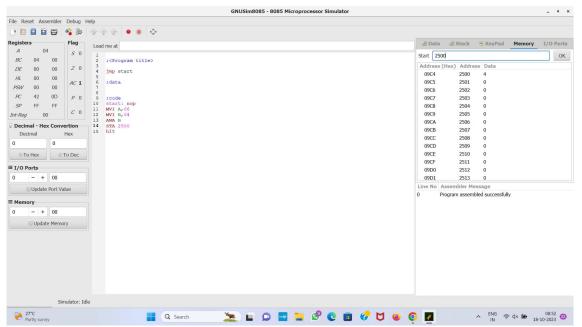
```
MVI A, 07
MVI B, 06
```

XOR OPERATION:

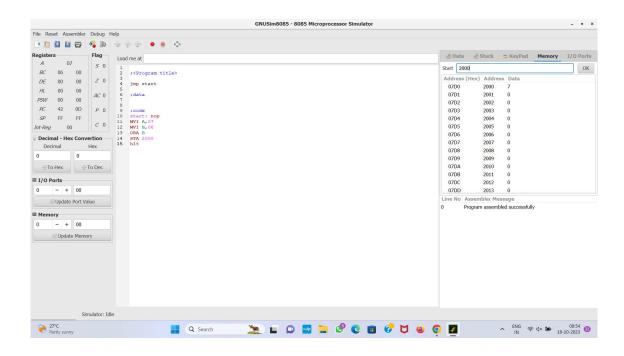
```
MVI A, 03
MVI B, 08
```

OUTPUT:

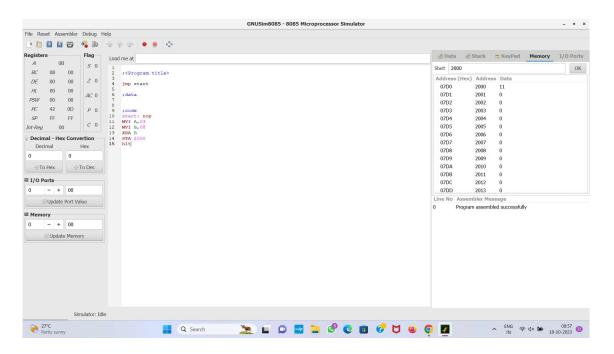
AND OPERATION:



OR OPERATION:



XOR OPERATION:



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