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

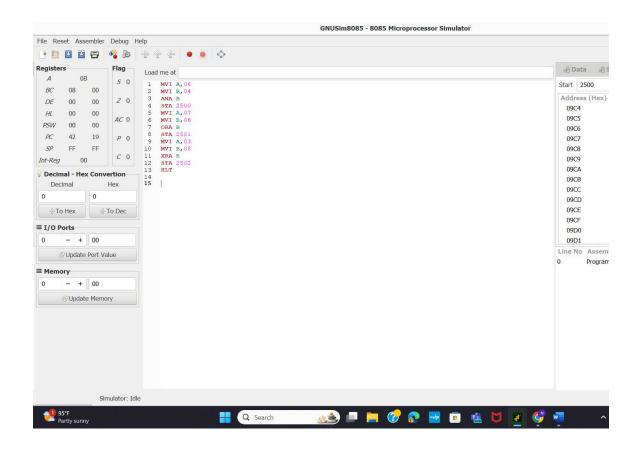
# **XOR OPERATION:**

MVI A,03 MVI B,08 XRA B STA 2000 HLT

# INPUT:

| 1141 01.      |         |      |
|---------------|---------|------|
| Address (Hex) | Address | Data |
| 09C4          | 2500    | 4    |
| 09C5          | 2501    | 7    |
| 09C6          | 2502    | 11   |

# **OUTPUT:**



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