**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,04

XRA B

STA 2000

HLT

**INPUT:**

**A computer screen shot of a computer code

Description automatically generatedA screenshot of a computer

Description automatically generated**

**OUTPUT:**

**A screenshot of a computer

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

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