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:

AND OPERATION

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

OR OPERATION

```
MVI A,07


MVI B,06
```

X OR OPERATION

```
MVI A,07


MVI B,05
```
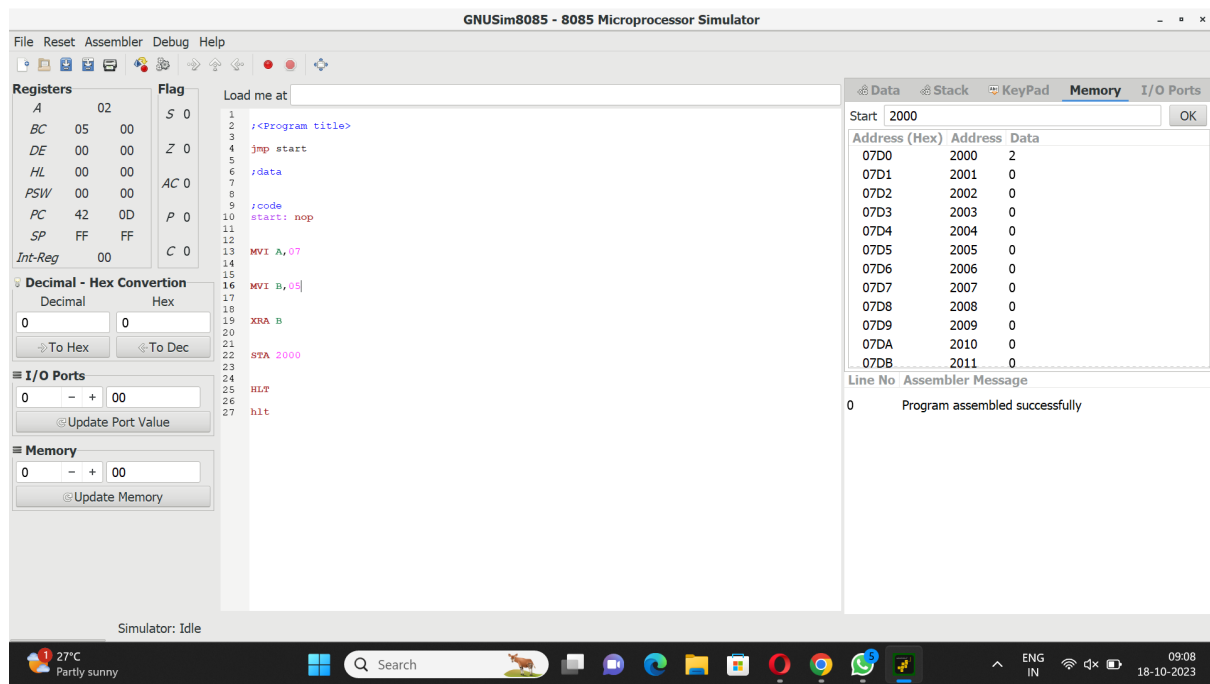
OUTPUT:

AND OPERATION

OR OPERATION

X OR OPERATION

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