

## ONEs AND TWOs COMPLEMENT

### EXP NO: 17

**AIM:** To compute one's and two's complement using 8085 processor.

### ALGORITHM:

- 1) Load the base address of the array in a register pair.
- 2) Move the data from memory location into accumulator.
- 3) Convert all ones into zeros and zeros into ones.
- 4) Add 01 to the accumulator content.
- 5) Store the results of one's and two's complement.

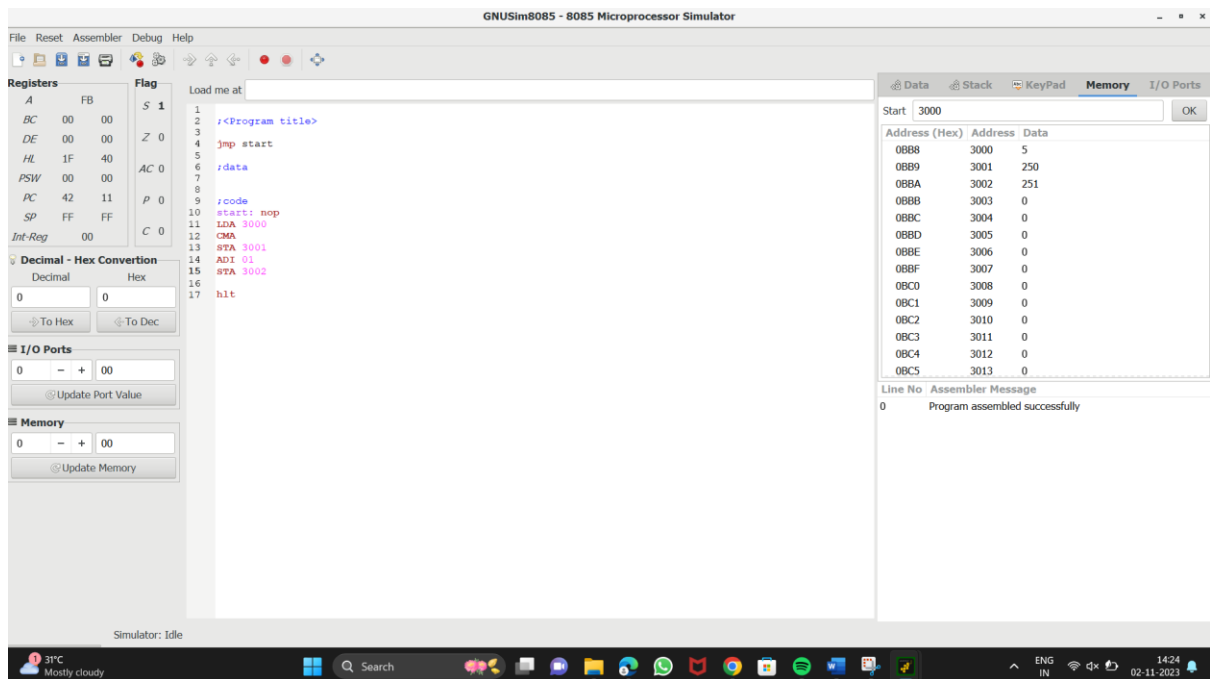
### PROGRAM:

```
LDA 3000
CMA
STA 3001
ADI 01
STA 3002
HLT
```

### INPUT:

Data	Stack	KeyPad	Memory	I/O Ports
Start	3000	OK		
Address (Hex)	Address	Data		
0BB8	3000	5		
0BB9	3001	250		
0BBA	3002	251		
0BBB	3003	0		
0BBC	3004	0		
0BBD	3005	0		
0BBE	3006	0		
0BBF	3007	0		
0BC0	3008	0		
0BC1	3009	0		
0BC2	3010	0		
0BC3	3011	0		
0BC4	3012	0		

## OUTPUT:



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