

**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**

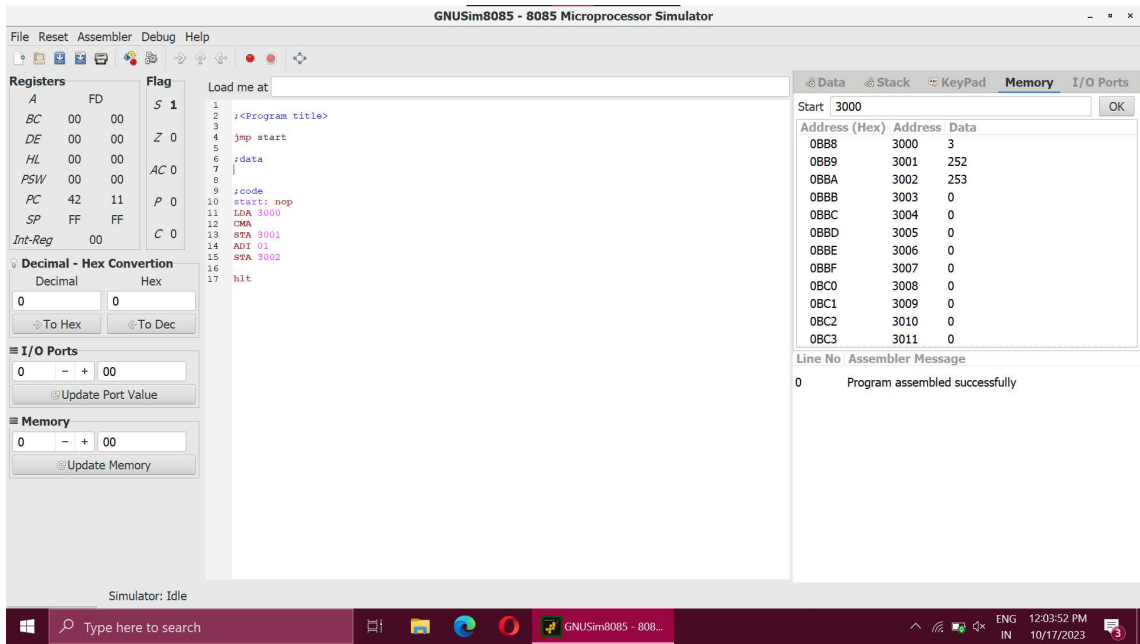
 I/O Ports

Start

OK

Address (Hex)	Address	Data
0BB8	3000	3

OUTPUT:



RESULT:

Thus the program was executed successfully using 8085 processor simulator.