## **8-BIT SUBTRACTION**

EXP NO: 2

**AIM:**To write an assembly language program to implement 8-bit subtraction using 8085 processor.

## **ALGORITHM:**

- 1) Start the program by loading the first data into the accumulator.
- 2) Move the data to a register.
- 3) Get the second data and load it into the accumulator.
- 4) Subtract the two register contents.
- 5) Check for borrow.
- 6) Store the difference and borrow in the memory location.
- 7) Halt.

## PROGRAM:

LDA 8000

MOV B, A

LDA 8001

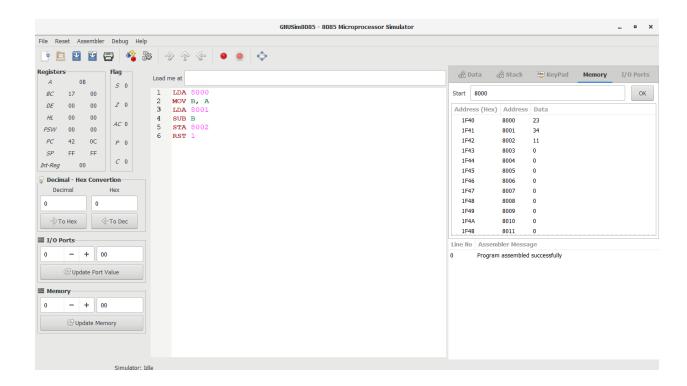
SUB B

STA 8002

RST 1

## **INPUT & OUTPUT:**

Start <b>8000</b>		ОК
Address (Hex)	Address	Data
1F40	8000	23
1F41	8001	34
1F42	8002	11
1F43	8003	0
1F44	8004	0
1F45	8005	0
1F46	8006	0
1F47	8007	0
1F48	8008	0
1F49	8009	0
1F4A	8010	0
1F4B	8011	0



RESULT: Thus the program was	executed successfully (	using 8085 processor s	mulator.