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

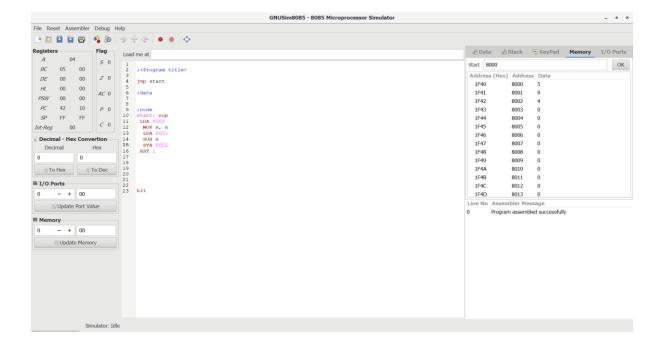
STA 8002

RST 1

INPUT:

⊕ Data	1 (E) 3	otack c	Reyrau	мешогу	1/0 Port
Start 80	000				Ok
Address	s (Hex)	Address	Data		
1F40		8000	5		
1F41		8001	9		
1F42		8002	4		
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		
1F4C		8012	0		
1F4D		8013	_0		

OUTPUT:



RESULT: Thus

the program was executed successfully using 8085 processor simulator.