

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

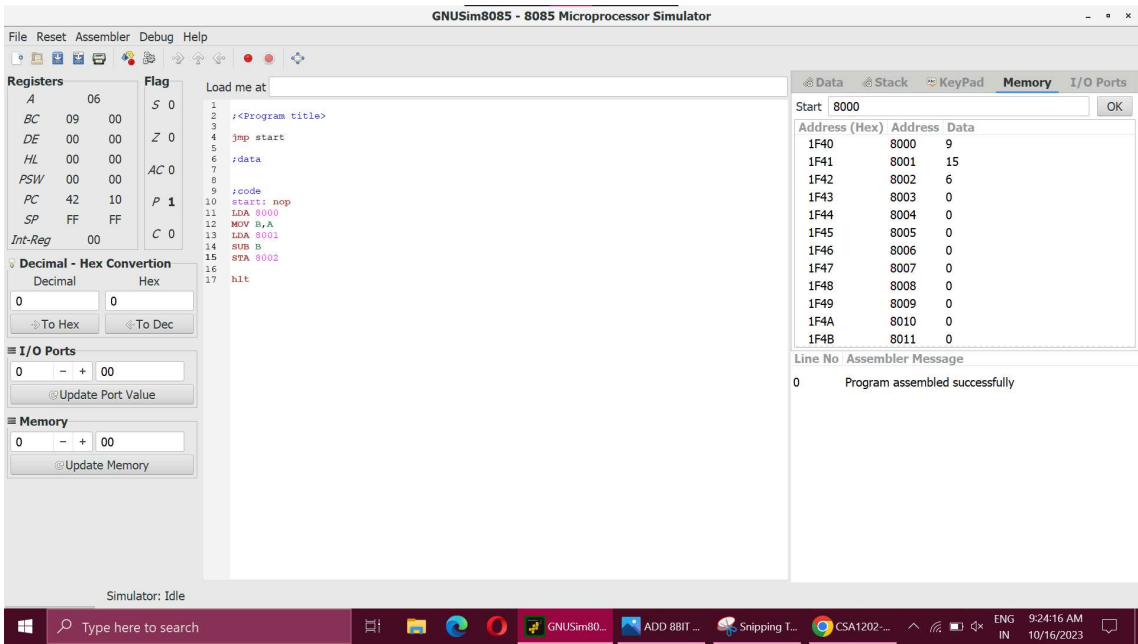
STA 8002

RST 1

INPUT:

Start	<input type="text" value="8000"/>		<input type="button" value="OK"/>
Address (Hex)	Address	Data	
1F40	8000	9	
1F41	8001	15	

OUTPUT:



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