

8-BIT ADDITION

EXP NO: 1

AIM: To write an assembly language program to implement 8-bit addition 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) Add the two register contents.
- 5) Check for carry.
- 6) Store the value of sum and carry in the memory location.
- 7) Halt.

PROGRAM:

LDA 8500

MOV B, A

LDA 8501

ADD B

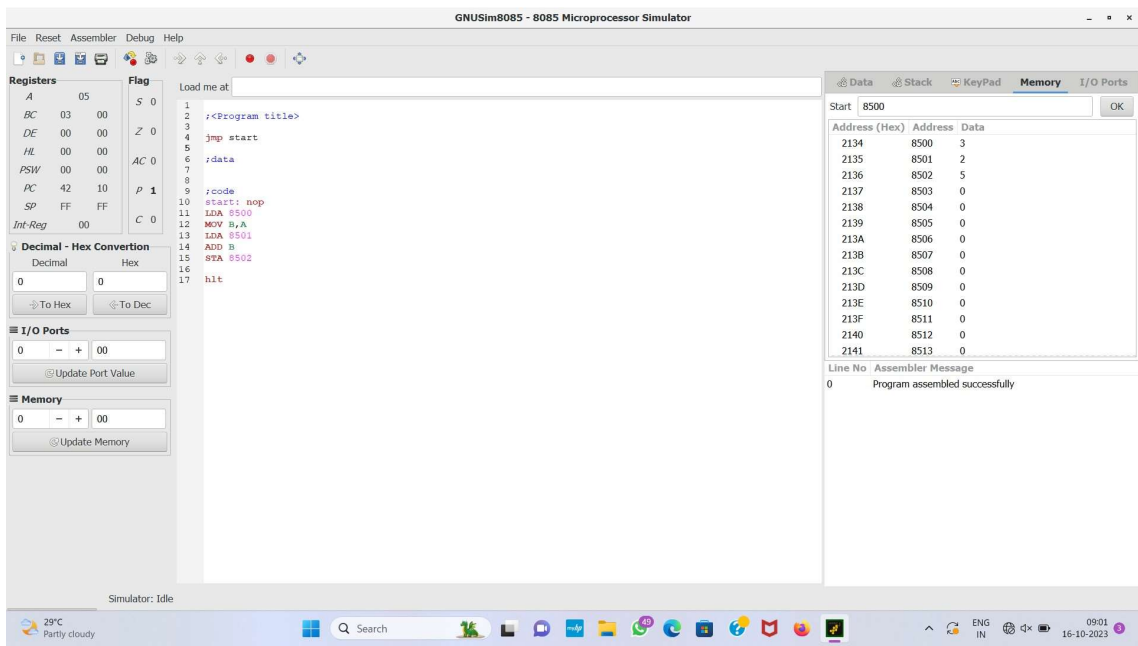
STA 8502

RST 1

INPUT:

Address (Hex)	Address	Data
2134	8500	3
2135	8501	2

OUTPUT:



RESULT:

Thus the program was executed successfully using 8085 processor simulator.