8-BIT ADDITION

EXP NO: 1

AIM: To write an assembly language program to implement 8-bit addition using an 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 the sum and carry it in the memory location.

7) Halt.

PROGRAM:

LDA 8500

MOV B, A

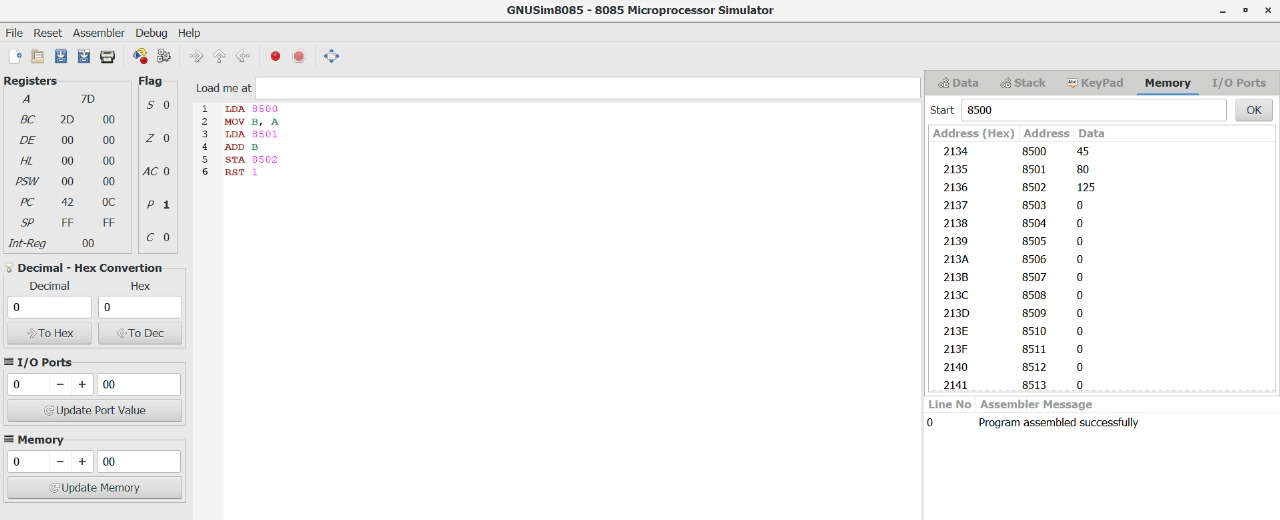
LDA 8501

ADD B

STA 8502

RST 1

INPUT & OUTPUT



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