



• EXP NO: 1

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

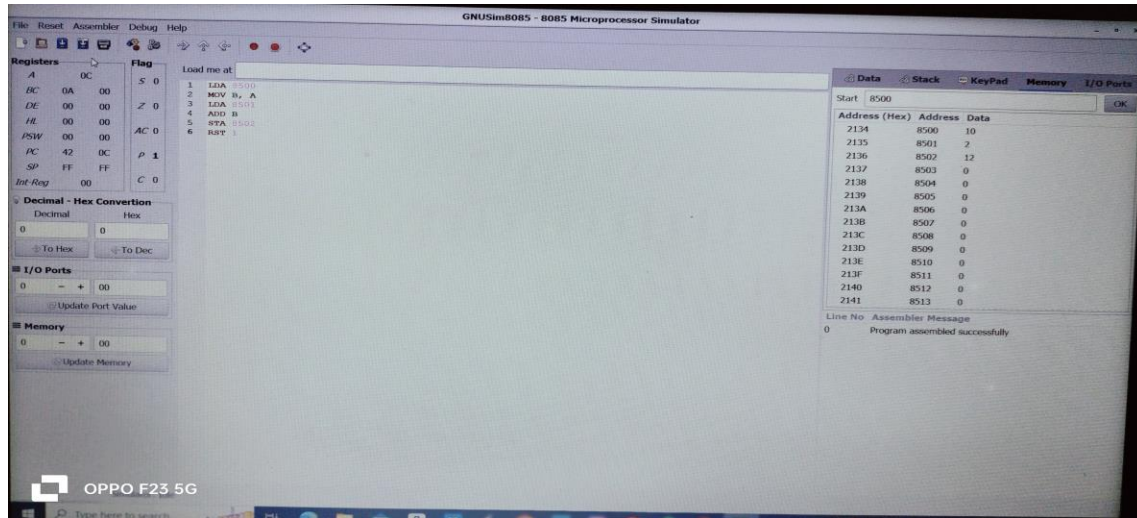
• ALGORITHM:

- 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.

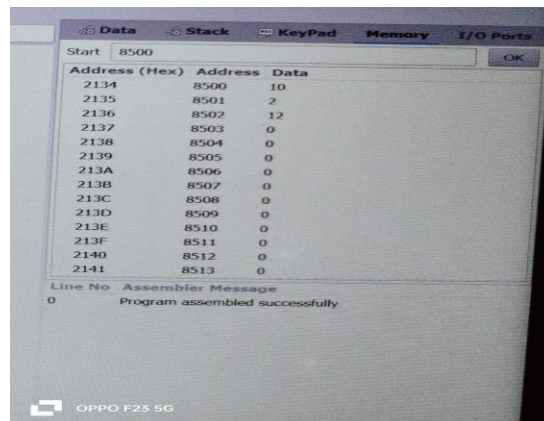
• PROGRAM:

- LDA 8500
- MOV B, A
- LDA 8501
- ADD B
- STA 8502
- RST 1

- Input



- output



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