

**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

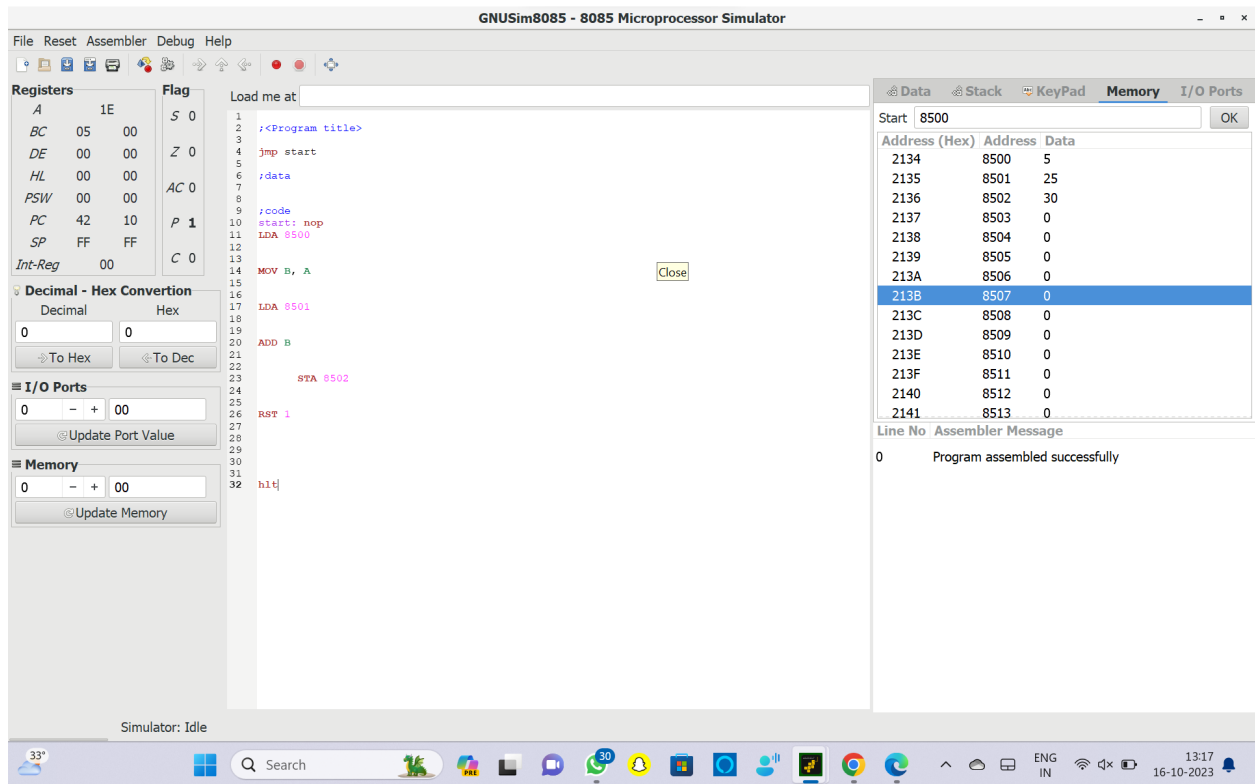
STA 8502

RST 1

**INPUT:**

Address (Hex)	Address	Data
2134	8500	5
2135	8501	25

**OUTPUT:**



**RESULT:**

Thus the program was executed successfully using 8085 processor simulator.