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.

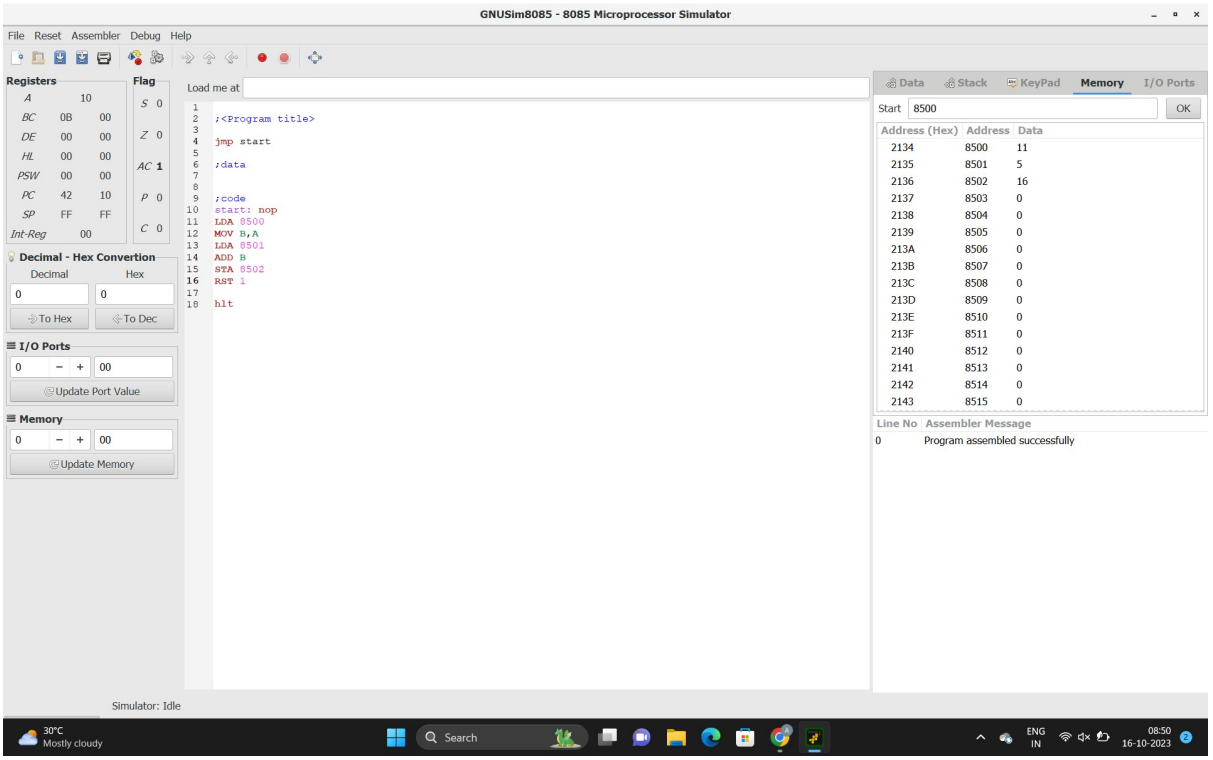
7) Halt.

PROGRAM:

```
LDA 8500

MOV B, A

LDA 8501

ADD B

    STA 8502

RST 1
```

INPUT:

2134	8500	11
2135	8501	5



OUTPUT:

2136	8502	16

RESULT:

Thus the program was executed successfully using an 8085 processor simulator.