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

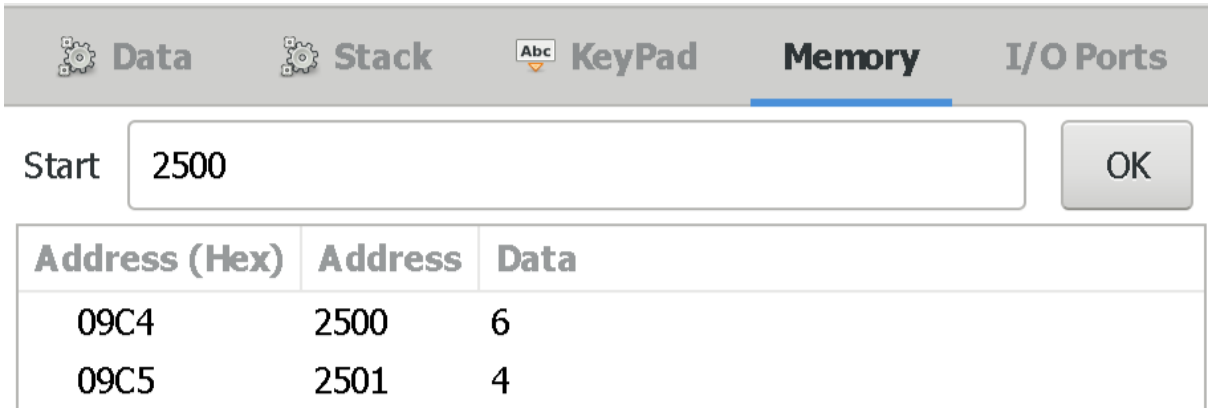
LDA 8501

ADD B

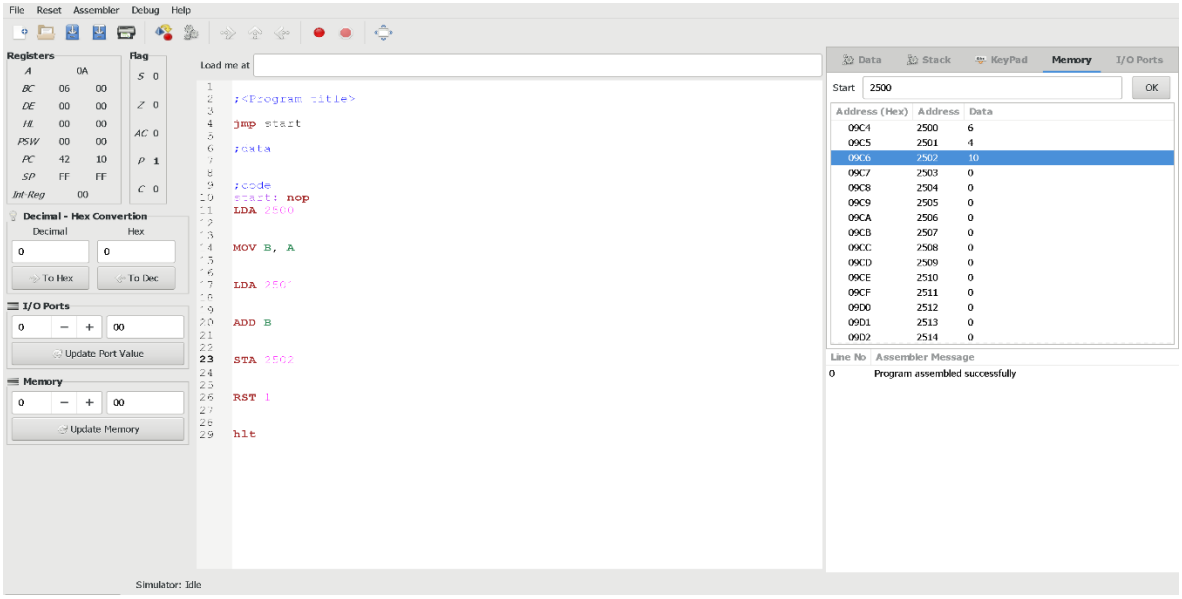
STA 8502

RST 1

INPUT:



OUTPUT:



RESULT:

Thus the program was executed successfully using 8085 processor simulator.