1.Write an assembly language program for adding two 8-bit data A7 A6 A5 A4 A3 A2 A1 A0 and B7 B6 B5 B4 B3 B2 B1 B0 using 8085 processor.

AIM:

To perform addition of two 8 bit numbers using 8085.

ALGORITHM:

- 1) Start the program by loading the first data into Accumulator.
- 2) Move the data to a register (B register).
- 3) Get the second data and load into Accumulator.
- 4) Add the two register contents.
- 5) Check for carry.
- 6) Store the value of sum and carry in memory location.
- 7) Terminate the program

PROGRAM:

LDA 2000

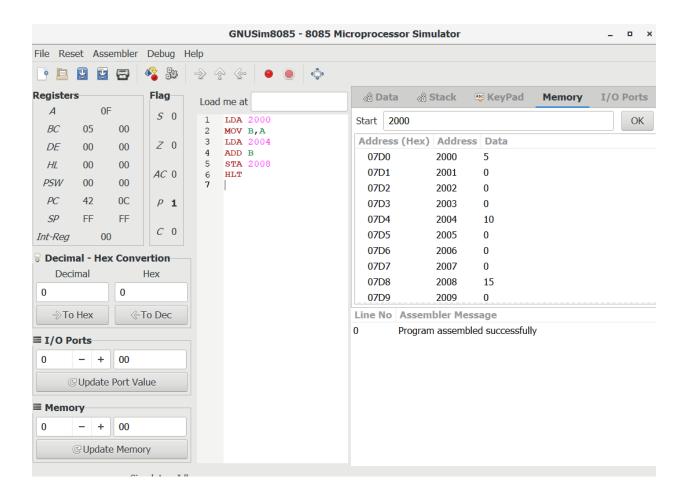
MOV B,A

LDA 2004

ADD B

STA 2008

HLT



OBSERVATION:

Input: 5 (2000)

10 (2004)

Output: 15 (2008)

RESULT:

Thus the program to add two 8-bit numbers was executed