

## 16-BIT ADDITION

**EXP NO: 5**

**AIM:**To write an assembly language program to implement 16-bit addition using 8085 processor.

**ALGORITHM:**

- 1) Start the program by loading a register pair with address of 1st number.
- 2) Copy the data to another register pair.
- 3) Load the second number to the first register pair.
- 4) Add the two register pair contents.
- 5) Store the result in memory locations.
- 6) Terminate the program.

**PROGRAM:**

LHLD 2500

XCHG

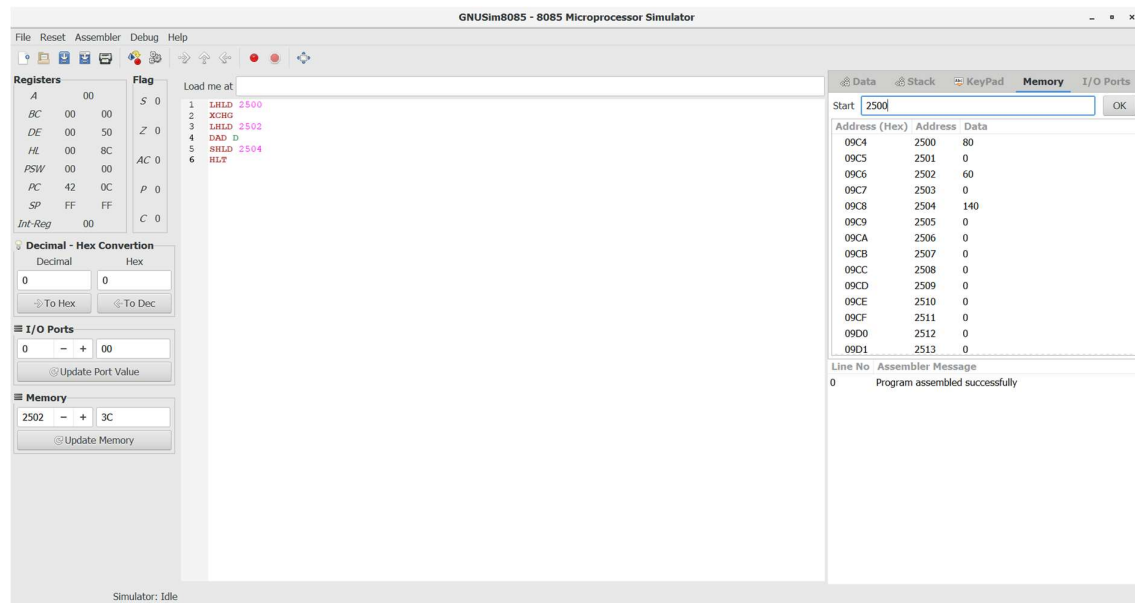
LHLD 2502

DAD D

SHLD 2504

HLT

## INPUT & OUTPUT



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