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.

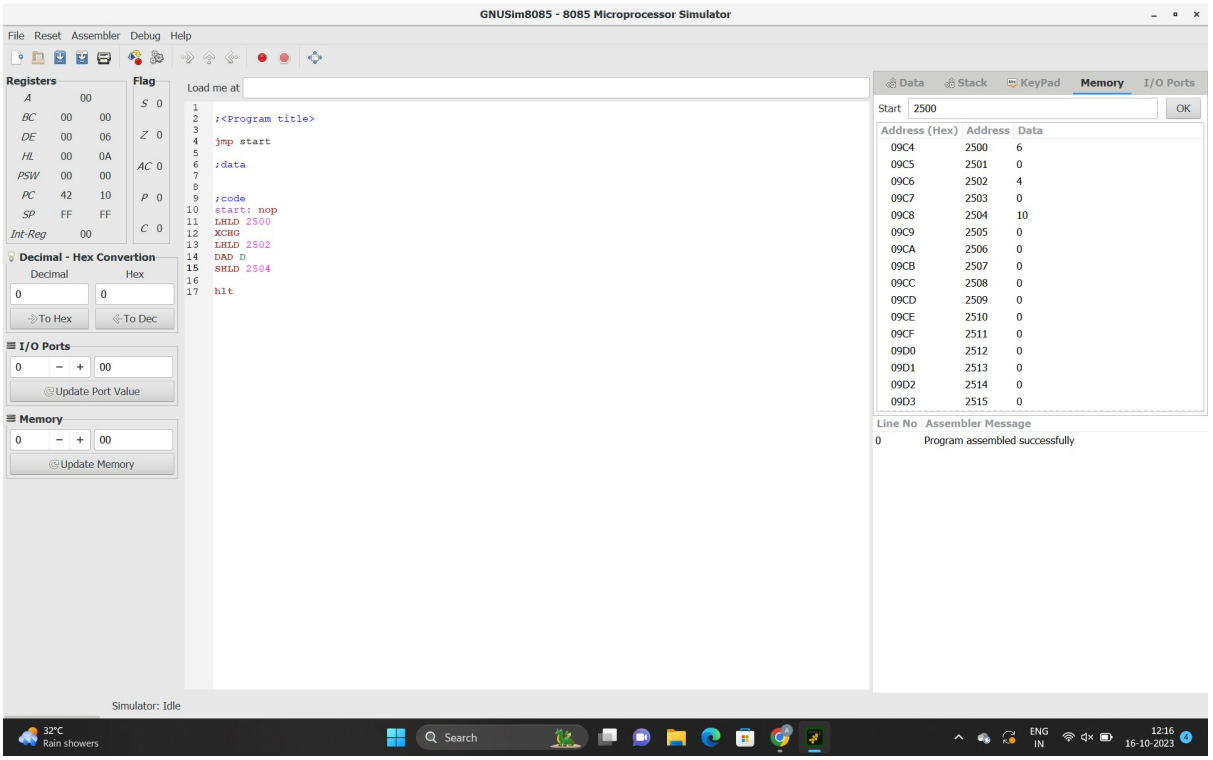
PROGRAM:

```
LHLD 2500

XCHG

LHLD 2502

DAD D

SHLD 2504

HLT
```

INPUT:

Address (Hex)	Address	Data
09C4	2500	6
09C5	2501	0
09C6	2502	4
09C7	2503	0

OUTPUT:



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