

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 the address of the 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
```

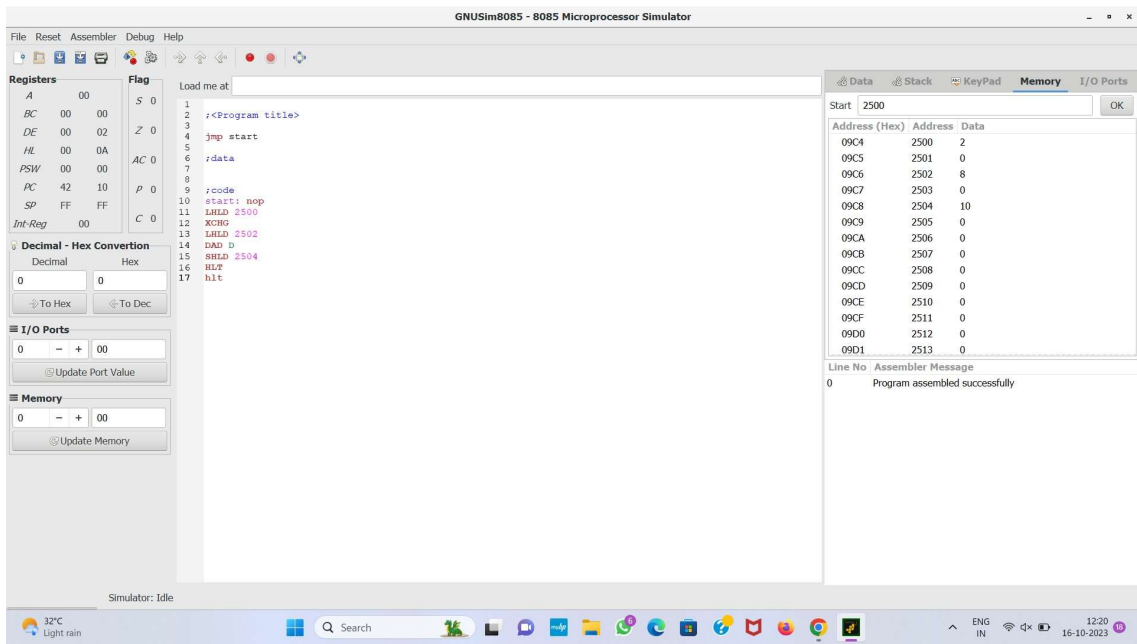
```
SHLD 2504
```

```
HLT
```

INPUT:

Start	2500	OK
Address (Hex)	Address	Data
09C4	2500	2
09C5	2501	0
09C6	2502	8
09C7	2503	0

OUTPUT:



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