16-BIT ADDITION

EXP NO: 5					
AIM: To write an assembly language program to implement 16-bit addition using 8085 processor.					
ALGORITHM:					
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:					

XCHG

LHLD 2502

DAD D

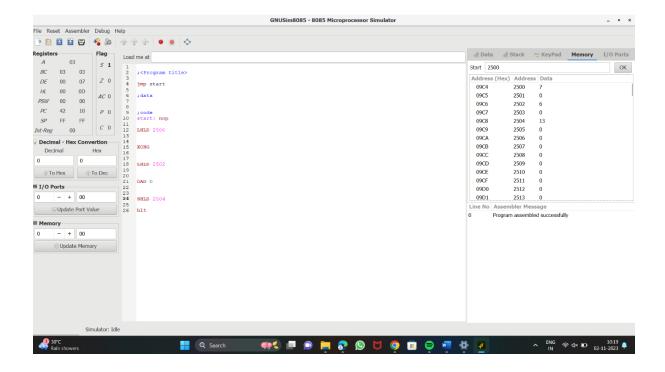
SHLD 2504

HLT

INPUT:

⊗ Data ⊗	Stack 5	₩ KeyPad	Memory	I/O Ports
Start 2500				OK
Address (Hex)	Address	Data		
09C4	2500	7		
09C5	2501	0		
09C6	2502	6		
09C7	2503	0		
09C8	2504	13		
09C9	2505	0		
09CA	2506	0		
09CB	2507	0		
09CC	2508	0		
09CD	2509	0		
09CE	2510	0		
09CF	2511	0		
09D0	2512	0		
09D1	2513	0		

OUTPUT:



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