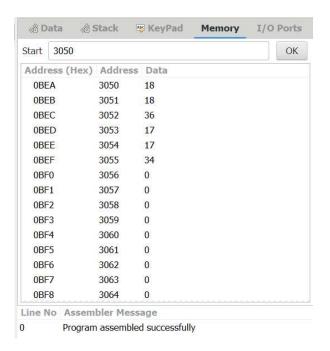
16-BIT ADDITION

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) Check for carry. 6) Store the value of sum and carry in memory locations. 7) Terminate the program. PROGRAM: LDA 3050 MOV B,A LDA 3051 ADD B STA 3052 LDA 3053 MOV B,A LDA 3054 ADC B

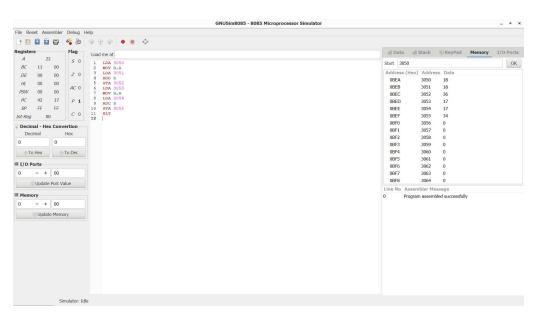
STA 3055

HLT

INPUT:



OUTPUT:



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