SMALLEST NUMBER IN AN ARRAY

EXP NO: 11

AIM: To find the smallest number from an array using 8085 processor.

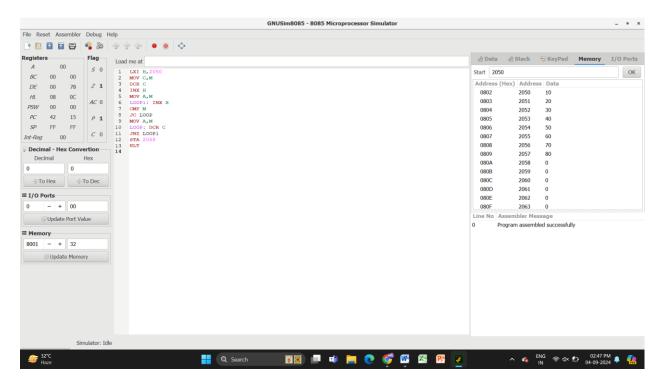
ALGORITHM:

- 1) Load the address of the first element of the array in HL pair.
- 2) Move the count to B register.
- 3) Increment the pointer.
- 4) Get the first data in A register.
- 5) Decrement the count.
- 6) Increment the pointer.
- 7) Compare the content of memory addressed by HL pair with that of A register.
- 8) If carry=1, go to step 10 or if carry=0 go to step 9
- 9) Move the content of memory addressed by HL to A register.
- 10) Decrement the count.

PROGRAM:

LXI H,2050 MOV C,M DCR C INX H MOV A,M LOOP1: INX H CMP M JC LOOP MOV A,M LOOP: DCR C JNZ LOOP1 STA 2058 HLT

INPUT & OUTPUT



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