## **LARGEST NUMBER IN AN ARRAY**

**EXP NO: 10** 

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

#### **ALGORITHM:**

- 1) Load the address of the first element of the array in the 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 the HL pair with that of A register. 8) If carry=0, go to step 10 or if carry=1 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 M,A VOM LOOP1: INX H CMP M JNC LOOP MOV A,M

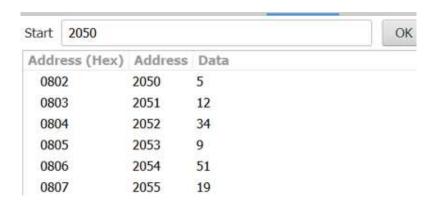
HLT

LOOP: DCR C

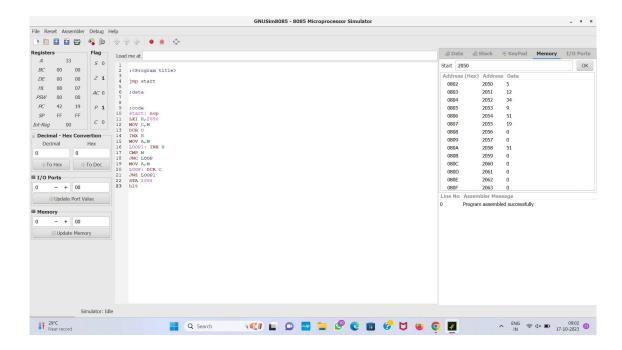
JNZ LOOP1

STA 2058

## INPUT:



## **OUTPUT:**



**RESULT:** Thus the program was executed successfully using an 8086 processor simulator.