**LARGEST NUMBER IN AN ARRAY:**

**EXP NO:10**

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

**APPARATUS:** GNUSim8085

**ALGORITHM:**

1)      Load the address of the first element of the array in the HL pair.  
2)      Move the count to the B register.  
3)      Increment the pointer.  
4)      Get the first data in the A register.  
5)      Decrement the count.  
6)      Increment the pointer.  
7)      Compare the content of memory addressed by the HL pair with that of the 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.

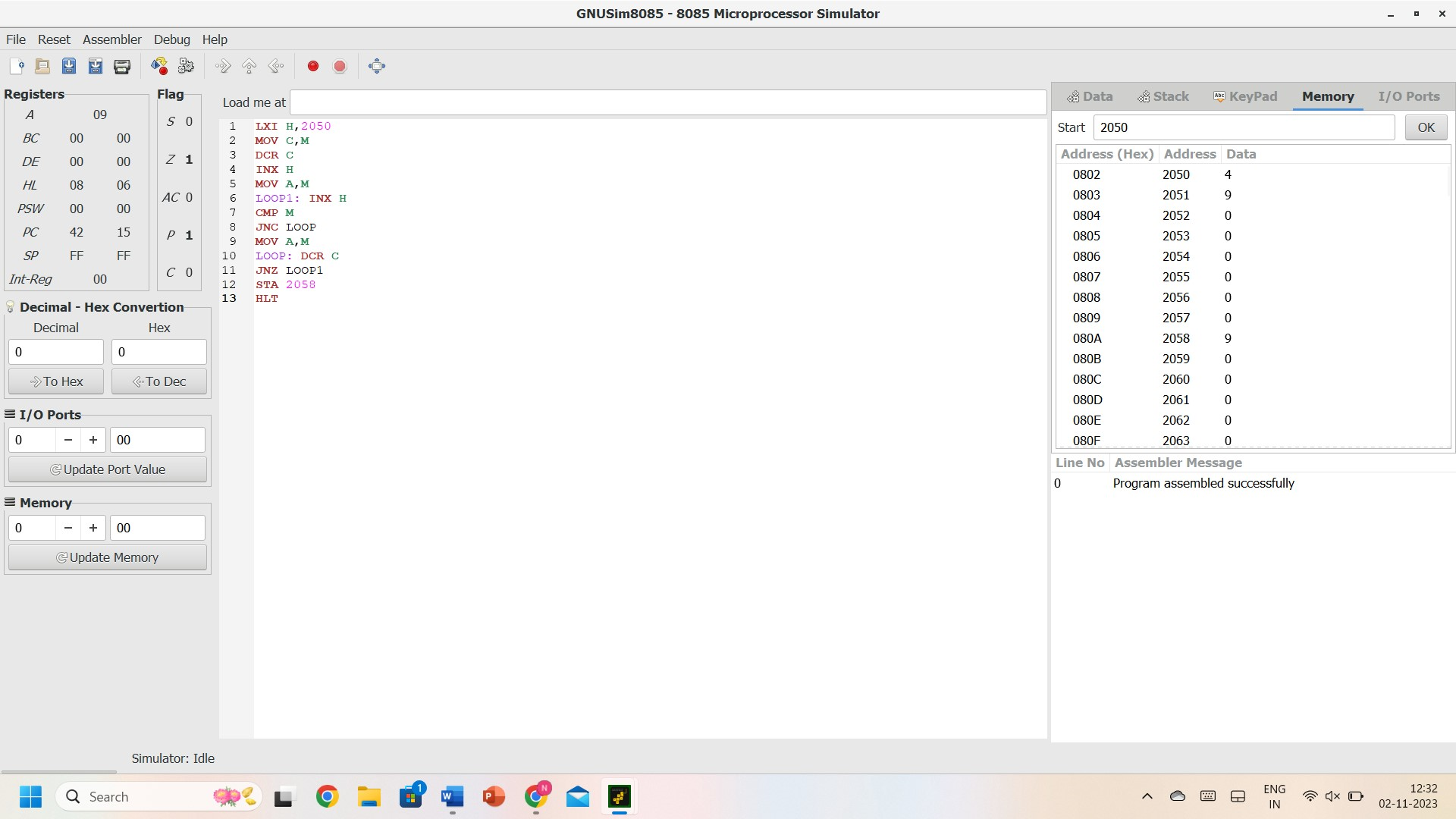
**PROGRAM:**

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

**INPUT:**



**OUTPUT:**



**RESULT:** Thus, the program was executed successfully using 8085 processor simulators.