1. **EXP NO: 9**  
   **AIM:**To find the largest 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=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:**  
   A screenshot of a computer

   Description automatically generated  
     
      
     
     
     
     
     
   **OUTPUT:**  
   A screenshot of a computer

   Description automatically generated  
     
      
     
     
     
     
     
   **RESULT:**Thus the program was executed successfully using 8086 processor simulator.

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