LARGEST
NUMBER IN AN ARRAY

EXP NO: 10

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

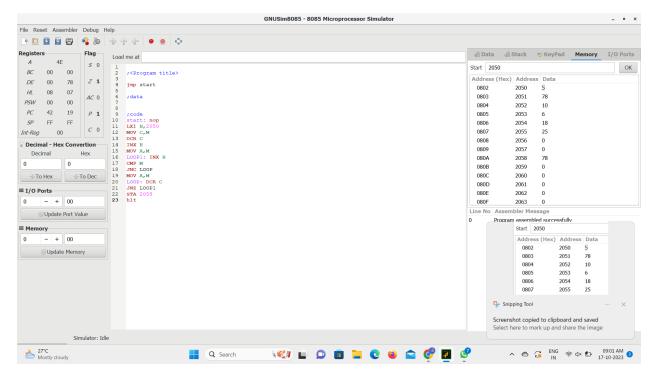LOOP1: INX H

CMP M

JNC LOOP

MOV A,M

LOOP: DCR C

JNZ LOOP1

STA 2058

HLT

INPUT:

Start   2050

Address (Hex)	Address	Data
0802	2050	5
0803	2051	78
0804	2052	10
0805	2053	6
0806	2054	18
0807	2055	25

OUTPUT:

RESULT: Thus

the program was executed successfully using 8086 processor simulator.