Computer Organization and Architecture (EET2211)

LAB III: Analyze and Evaluate the Array Operations using 8086 microprocessors.

Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar

Branch:		**Section:**	
S. No.	**Name**	**Registration No.**	**Signature**

Marks: _____/10

Remarks:

Teacher's Signature

I. OBJECTIVE:

1. Find the largest/smallest number (8-bit number) from a given array of size N.
2. Arrange the elements (8-bit number) of a given array of size N in ascending/descending order.

II. PRE-LAB

For each objective in prelab describe the following points:

- Write the assembly code with a description (ex. Mov ax,3000h – ax<-3000h)
- Examine and analyze the input/output of assembly code.

III. LAB

Note: For each objective do the following job and assessment:

- Screenshots of the Assembly language program (ALP)
- Observations (with screenshots)

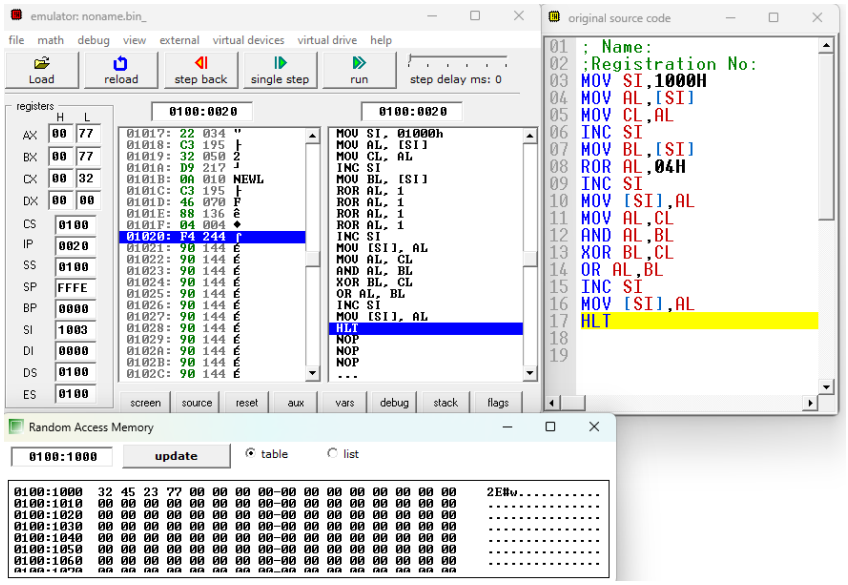

Fig. 1. Execution result of addition using immediate and direct addressing mode of 8086 emulator.

From this result, I have observed……

Observation Table:

Input:

Sl. No.	Memory Location	Operand (Data)
1		
2		
…		

Output:

Sl. No.	Memory Location	Operand (Data)
1		
2		
…		

IV. CONCLUSION

V. POST LAB

1. What are the directives available for data declaration in 8086 microprocessors?
2. State the difference between END, ENDP, and ENDS directives.
3. Find the sum and average of a given array of size N.