Exposiment - 7.

Hom: - To find out maximum number in a given string at memory location from 0000:1300 to 0000:130F and slow result at memory location 0000:1310

Software Used: - 8086 sim.

Hlgorithm:-

1) Load data from offset 1300 to register CL & set

Register On to 00 (from count) 2) Coad first number from lext Offset (ie 1301) to Legisler Al & Oleculase wunt by 1:

3) Now compare the value of register Al from data at ment offset, if that data is greater than value of register Al, then update value of register A L to that data else no change, à invease Offset value for most companison and decrease

count by 1 . Continuo till eount becomes

300

4) Store result at memory address 0000:1310.

Flow Chart! load data to a register with starting address Set register a to 00 lood foist number to regests Decrease Count by 1/ Compare value of regists AL with next value. Is the data guales than value NO Update Value with the new value.

Is count

NO

Stow Result at

PROGRAM:

	Mnemonics:	
	MOV 51,1300	
1200	MOV CL, ISIJ	
1203	mov C4, 00	
1205	100000	
1207	1NCSI"	
1208	MOV AL, [S]	
1209	Dec EL	
	INC SI	
1120C		
1201)	CMP AL [SI]	
120F	JNC 1213	
* -	MOV AL, [SI]	No.
1211	INC SI	
1213	(10 C 32)	
1214	LOOP 1200	
	mov (1310), AL	
1216		
12 1A	HLT	
12	Standard Commence	

Output! 0000:1300 -23 0000:1303 1 0000:1304 2 0000:1310 1 (minimum munber)

Result! Minimum number was formed from the given sluting.