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NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

LABORATORY EXCERCISE BOOK

BOTECHO IIIRO SEM.

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BRANCH: C.S.E. - B

SUBJECT: MICROPROCESSOR LAB

CODE: EE224

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AIM: Write & PROGRAM TO FIND LCM OF TWO NUMBERS & USING 8085 AND VERIFY:

THEORY:

- 1. ORG Address Directive reserves the starting address for Program Code or data in specified memory array.
- 2. LXI H loads 16 bit data in register pair designated by operand.
- 3. INX H increments the contents of the register pair by one.
- 4. MOV A, M copies data in memory address of HL pair to the accumulator.
- 5. SUB M subtracts contents of memery from acc.
- 6. MVI moves immediate value to specified register. 7. CPI compares immediate value with accumulator
 - If, (A) < Register, carry flag is set and zero flag is never
 - If, (A) = Register, carry flag is reset and zero flag is set.
 If; (A) > Register, both carry and zero flags are reset
- 8. Is address if zero flag is set.
- 9. INC Addr. jumps execution to the specified address.
 if the carry flag is reset.
- 10. ADD Reg. 2dds register and accumulator values.
- 12. STA copies content of accumulator to specified memory address.
- 13. HLT terminates further execution.
- 14. DB derivative stores values in specified address

PROGR	PROGRAM:						
Address	label	Mnemonics	Hexcode	Comment			
		HORG 2000H					
2000		LXT H,F100	27	HT < 6700			
2001			00				
2002		with many	FL				
2003		MOV A, M	7E	A CHLJ			
2004		MOV C, M	HE	CETHLI			
2005		MOV D.M	56	D+ CHL]			
2006	100000	INXH	23	HL+1 -> HL			
 2007	UP	808 M	96	$A-M \rightarrow M$			
 2008		ZNC UP	72	3f A>M, jump to CA			
2009			07				
200A	1		20				
200B		ADD M	86	M+A -> A			
2000		CPI 00	FE	Compare A with OOH			
2000	-	The second	00				
200E		ZS DOWN	CA	If A=OOH, Jump Down			
2007			7.5				
 2010	-	100-00-00	20				
2011		MOV A.D	7A	D→A			
 2012		ADD C	87	A+C -> A			
2013		MOV DA	57	$A \rightarrow D$			
2014		ZMPUP	C3	Jump to UP			
2015			60				
2016	-		20				
2017	DOWN	MOV A,D	7A	$D \rightarrow A$			
3078	1 1 1	STA F200	32	A ->[F200]			
2019	1		00				

