# **Ambition College**

New Baneshwor, Kathmandu



Department: BSc. CSIT

Semester: 2<sup>nd</sup> Semester

SUBJECT: MICROPROCESSOR

Submitted by:

Name: Anushka Shrestha

Roll No: 05

Submitted to:

**CSIT Department** 

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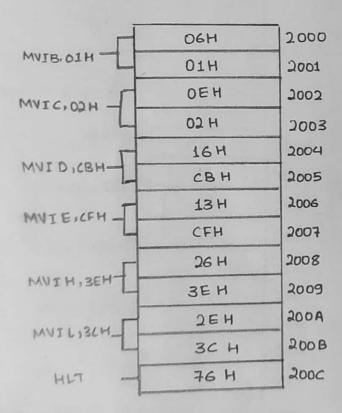
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TO WRITE A PROGRAM TO LOAD REGISTER BIC, D, E, HIL WITH VALUES 01, 02, CB, CF, 3E, 3C

#### PROGRAM:

Mnemonics	Hex value
MVI B, 01H	06 H
MVI C, 02H	0E H
MVI D, CBH	16 H
MVI E, CFH	13 H
MVI H, 3EH	26 H
MVI L, 3C H	2E H
HLT	76 H

### MEMORY REPRESENTATION



## STPUT:

Register B=01H

Register C=02H

Register D=CBH

Register E=CFH

Register H=3EH

Register L=3CH

LAB 1

o add four numbers of 8-bit i.e CB, FE, 9E, D8 and show the 8-bit result arough D

OGRAM

Instruction	Hex value
XRA A	AF H
MVI B, CB H	06 H
MYI C, FEH	0E H
MYI D, GEH	16 H
MYI E, D8 H	1E H
ADD B	80H
ADD C	81H
ADD D ADD E MOV D A	82H 83H 57H
HLT	76H

mory Representation

XRA A	AF	2000
Γ.	06	200E
MVE BICEH -	св	200F
L	0E	2010
MVI CIFEH-	FE	2011
	16	2012
MYIDIGEH-	9E	2013
	1E	2014
WALE DEH-	D8	2015
ADD B -	80	2016
ADDE -	81	2017
ADD D	82	2018
ADDE -	83	2019
MOV DIA -	57	2019
HLT -	7.0	201 <b>B</b> A

TPUT:

Register D = 1

CONCLUSION:

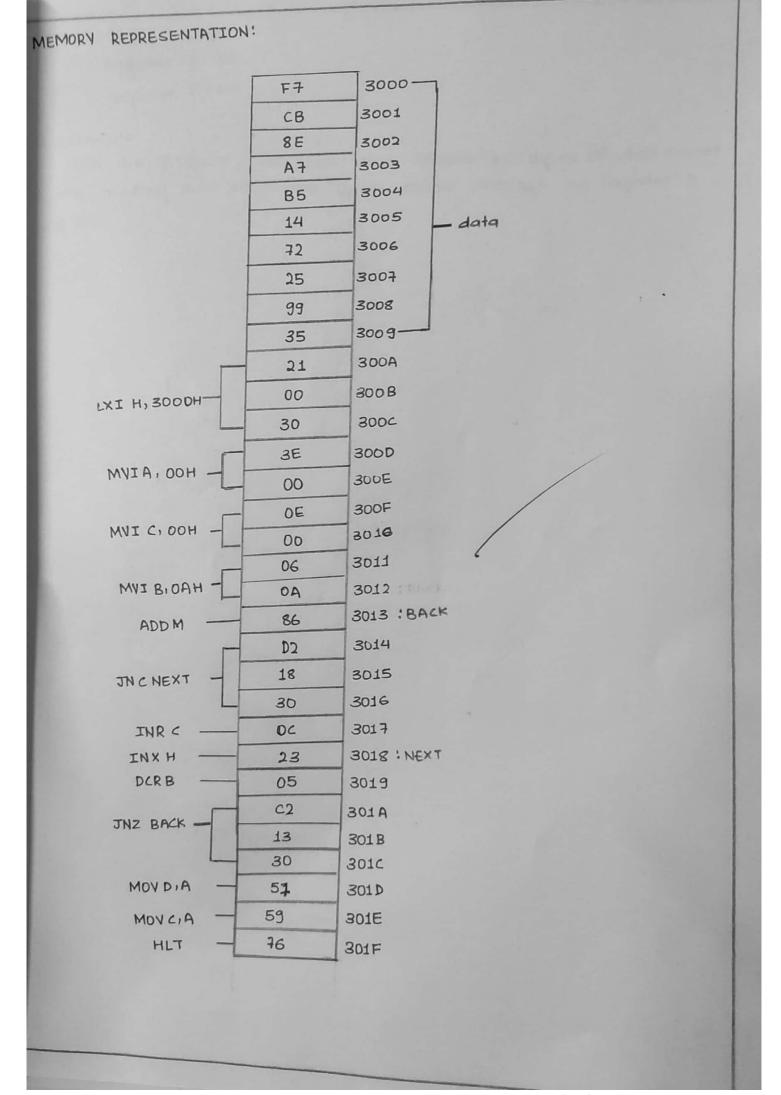
Hence, we were able to add 4 number of 8-bits data and more

final result in register D

TO ADD 10 BYTES OF DATA STORED IN MEMORY AND SHOW 16 BIT RESULT THROUGH REGISTER D AND E

PROGRAM:

Mnemonics (Instruction)	Hex-Value
LXI H, 3000H	21
MVI A, DOH	3E
MVI C, ODH : carry	0E
MVI B, DAH : counter	06
BACK: ADD M	86
JNC NEXT	D2
INRC	00
NEXT: INX H	23
DCR B	05
JNZ BACK	C2
MOV D, A : sum	57
MOV E, C : Carry	59
HLT	76



OUTPUT!

Register D= 25 Register E= 05

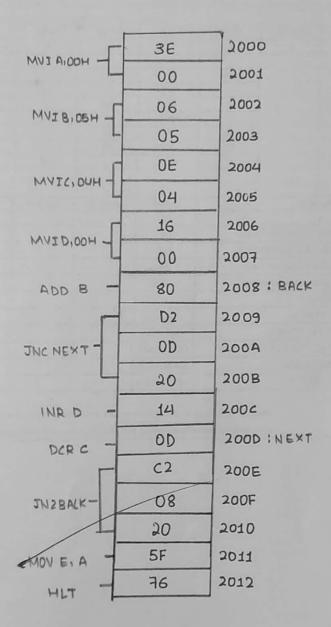
CONCLUSION !

In this program, we were able to add 10 bytes of data stored in the memory and show the 16-bit result through the register D and E

# O MULTIPLY TWO NUMBERS 05 AND 04

ROGRAM

	Mnemonics	Hex Value
	MVI A100H	3E
	MVI BIOSH	06
	MYI C, 04H	OE
	MVI D, OOH	16
BACK	ADD B	80
	JNC NEXT	D2
	INRO	14
NEXT	DCRC	OD
	JNZ BACK	C 2
	MOV EIA	5F
	HLT	76



TPUT

Register E = 14H

ULT:

Hence, we were able to multiply two numbers 05H and 04H

#### Name: Anushka Shrestha Roll no: 05

-	^ [	В	С	D	E	F	G	Н	,
	A AlComputo fit	ect four mom	ents about an	arbitrary point	75 from the	following dat	a. Also find first	four central	
	moments,skew	nose and kur	osis and inter	pret					
2		50-60	60-70	70-80	80-90	90-100			
3	Class Interval	5	12	20	7	6			
4	Frequency								-
5	X	f	mid(m)	fm	m-A		-		
7	50-60	5	55	275	-20				_
8	60-70	12	65	780	-10			-	_
9	70-80	20	75	1500	0				_
10	80-90	7	85	595	10		-		-
11	90-100	6	95	570	20				
12	30 100	50		3720					
13							-		
14							- de		
15	Measure	Position	Formula	Value	Formula				
16	A			75			07.011 E7.E11\	(B12	
17	μ1'			-0.6	=SUMPRODUCT(B7:B11,E7:E11)/B12				
18	μ2'			126	=SUMPRODUCT(B7:B11,E7:E11^2)/B12				
19	μ3'			60	=sumproduct(B7:B11,E7:E11^3)/B12				
District Co.	щ'			39000	=sumproduct(B7:B11,E7:E11^4)/B12				
20	1			0	=D17-D17				
21	μ1			125.64		=D18	3-D17^2		
22	-	100		286.368	=D19-3*D17+2*(D17)^3				
23	μ3			39415.7712	=D20-4*D19*D17+6*D18*(D17)^2-3*(D17)^4				
24	μ4				-5254		(D22)^1.5		
25	γ1			0.20334458			/(D22)^2		
26	β <sub>2</sub>			2.49697488		-024)			
27	7				tit och ole				
20	Since (skewner and since the	ss)v <sub>1</sub> =0.20334	4577>0 so th	e distribution is p	ositively ske	ewed			

1) WAP to count number of 7 in 10 bytes of data stored in memory

PROGRAM

Mnemonics	Hex Value
LXIH,2000H	21
MVI A , OOH	3E
MVI C, OAH : counter	0E
MVI D, OOH : count	16
BACK: MOV A, M	76
CPI 07H	FE
JNZ NEXT	C2
INR D	14
NEXT: INX H	23
DCR C	00
JNZ BACK	c2
HLT	76

2) WAP to count number of even and odd number among 10 bytes of data 2 calculate even number in Register c and odd number in Register D PROGRAM

Mnemonics	Hex Value
LXI H, 2000H	21
MVI A, 00H	3E
MVI B, DAH: counter	06
MVI c, ooH : even	OE
MNI D, OOH: odd	16
BACK: MOV AIM	7E
RRC RRC	OF
JNZ NEXT	D2 ·
INR D	14
JMP GO	С3
NEXT: INR C	00
GO: INX H	23
DCR B	05
JN2 BACK	C2
HLT	76



UTDUT Register C=06 Register D = 04 In this program, we where able to wount number of even and odd ONCLUSION ! number among 10 bytes of data stored in memory.

