educisi imonje	MIT TUTORIAL - 2 25/1/2020								
	U19CS012								
Diop Lon	d	rma	LHDA		MSTRUCTION				
17	77 27 1107 1117 15 5000000								
0	INSTRUCTION	ACHI	O7 BC	H)	ССНЭ	DCH)		PORT 1 CH	
0	1 0 0	00	00		00	00		00	
THOU	MVIB, 82H	00	85)	00	00		00	
	MOV A, B	82	8	2	00	00		00	
The County of	MoV C, A	82	8	2	82	00		00	
	HEE, OIVM	82	8	2	82	37		00	
	OUT O1H	82	01 10 8	2	82	37		82	
(w)	HLT 130 Cdecima								
(OUT post (data) (A)								
	The content's of register A is placed on 8 bit bi-directronal data hus,								
	for transmitten t								
00 d 00 x 1/6	Ans output at Pr	ORT1 =	130	- 71=51	824	HashI	X 17		
2)	Identify the contents execution.	of regis	hrs and	flag	& at follows	()	instru	chcn	
1 -	0 1 0	99.01	32 -		1 10 A 100 A				
	INSTRUCTION	ACHO	BCH)	CHI	DCH?	5	Z	СУ	
	1 1 1 100	00	00	00	00	0	0	0	
	MVIA, OOH	00	00	00	00	0	. 0	6	
	MVIB, F8H	00	F8	00	00	0	6	0	
	Mov c, A	00	F8	00	00	9	0	0	
	Mov D, B	00	F8	00	\$€ F8	0	0	0	
14-25 (4)	HLT	01.11	10	10	38				
server the	Coditional Flage are not affected by Data Transfer Group instruction Mov, my 1.								
1137	1 Jans = H(09) 55. 1	0000		eal	(E)				
		TEAD		101-1010	1000 7 7				

vision

		011030						
3. > Identify to	re content's	or	degishr	and Fi	ags a	fler each	Stalement exec	who
		,	المصيدات	-				
INSTR	UCTION	ACH)	BCH)	5	Z	CA	PORTO [COH]	
INTIL	L STATE	00	1 FF	0 110	1	0		
MVI	A, F2H	F2	FF	0	1	0	0	
WIND MVI	BY AAH (1)	a F2	AF	0	11	2011	0	
AD	DB	6C	AF	0	0	1	Ó	
		60	AF	0	0	1 1	108 [(eC)H]	
HL HL	TO					A steet		
All instru	uction in Ari	Thematic (roup (AD	D) effect	of zero.	Sign. F	Danty Carry	
						ry flag	, , _	1
F2	000	0 0 10			H	9 9		
	0111					Tickio	ot zero)	
	0110	1100	= ((6C)H	± (00°)H 3/7	=0)	
	carry generator	: CY = 1		118 3	of tools			
	0 0	restant	9 4	1 10 10				-
4.7 Identify th	contente	of regist	er and	Cons	0.04	ach ala	lament experta	
d		or • cg 151	C) C110	rings	with	ad1 310	rential occurre	11
INSTRU	CTION	Асн)	C(H)	S	ZI	СУ	1 (0	
	STATE	1	00			0		
MVI	N, SEH	5E	00	0	1	0	6	
	A2H (III)	00	00	0		a11 a		
Mov		00	00	00	1	1		
HL						LIVM		
	ata Add	immedial						
	(A) ←							
			33					
	E 01	000					(: Z=1)	
+ A		010		()	Accumula		" hesult is zero	
	(1) [00	00	0000				[% z = 1]	
(carry general	rd) °	CY = 1		30/11 -	7610	[00 Y - T]	
	0 0 100		1					

	5
	11
100	- N
	7
	2

	-				
11	In	1	12	1	11
	104	£.,	-		1)

	- Andreal p	(3)							
Luas see	HOLLEGE HOLL OF		ab assayle	9 508 813	ex	ecuhon.			
5.)				's offer fo					
		oming fell of	7		0				
	INSTRUCTION	ACH)	B(H)	M S M	Z	CY			
A wall being	INITIAL STATE	00	100	0 31	0	0			
basis de	MVI A, A9H	Ag	00	01 141	901	0			
rea	MVI B, 57H	A9	53	M O VOM	0	0			
(m>(a)	ADD B	00 A	57 \	90 940	11/11/	1			
	ORA A	00	57 N 59	boso out	1	0			
0	ADD B: $(A) \leftarrow (A)$ $A9 \qquad 0 0 0 0 0 0 0 0 0 0$)+(B)	an) 1/ 1	a, a Von	DRA A				
	A9 1010	999,	S res	BULL GOHT A	0000	0000			
	+ 57 0101		\\ Z=1 u		0000	111			
	F	The second secon		flag C		0000 = 00H			
	carry generated of CY=1 Set) No carry generated [CY=0]								
	a the Highest public of	[A17 . E16]	anged wa	do Dob ind	W (0)				
6.7	Identify the contents of	2 register's	and flag's	after followin	g instruction	n execution.			
	Person to James	ad History	denud last	All Fillery					
	INSTRUCTION	ACH)	B(H)	S	Z	су			
	INITIAL STATE		2 1	10	A Od	0			
	XRA A				1	0			
	MVI B, 4AH	00	48	0	1	0			
FAncel	SOI 4FH	00_	4A 4A	1	0	0			
operation (XR	ANA B	00	711		in .	0			
performed		0000 1	1-150	3 ANA B					
Aset the	(Ex-OR) 1 0000 0000 A [:, Z=1] A 1011 0001								
Z Prag	0000		O)H = Zero			10			
-	horrow	000 0000		(000 00	00)=(00) H			
		100 1111			Result = OOH = (
	^	011 000	1 1138	Co. 153					
	MSB=1 Barow gar	nerated ECS =	1) " (MSB of	fresult = 1)]					
Vision	% (CY = .	1)							

```
Memory Location;
Ter What does this program do 2000: 18H 2001: 10H 2002: 28H]
MVI C, 03H // Hotal numbers in Array
                LXI H, 2000H / inHalise H-L pointy CMP &
        (Result) - MOV A, M // Inhalise first no (A) - 8
                DRC C // 1 value compared occupent of r subtract from A
        LOOP: INK H // point to next location Acc. remains unchanged
AKB-+ cy=1 Mov B, M // Store tru val in B ? I flag (set) if A = 7
      + (A-B) CMP B // compare A & B Loop2 "CY Plag END (A)<(8)
              INC LOOP2 // if carry not generated A AA
unchanged)
         A ARR MOV A,B / if (current value > A)
         LOOP 2: DCR C // 1 element checked
                INZ LOOP1 / is array counter reached zero?
                STA 2100H // store the result from Acc to location 2100 H
         (a) What does above progrem do? Finds the Highest number in
                         Array of memory Locations
              Finally, Highest number will be present in Accumulator.
         (b) At the end of progrem, what will be consent of
                     1/ Highest No.
                 B = 2B

[C = 00]

[Counter sets to zero
finally]

[H = 20]

[H = 02]

[H | last no to be

[C = 00]

[Counter sets to zero
finally]
            CiD
                 CY = 1
                 ( last number (2B) > old-highest ((18)H))
                  Z = 1 ( : O country reaches 'O')
                                         (STA instruction)
            (iii)
                 [2000] = 18H
                                  (Not [2100] = 2BH]
                   [2001] = 10H
                   [2002] = 2BH
```

	V19CS012							5		
8.7	This program	is to n	nultiply	the num	ibers (OAH by	OBH or	nd store		
	the result in Accumulator. If conjects of B = OAH c = OBH then									
	complete the following program.									
	$m \times n = \{adding$							n' number		
	MVI A, OOH							times y		
	LOOP: A		; (A	$) \leftarrow (A) +$	- (B)					
	-	DCR C (C) < (C) - 1 Decrement the counter								
	J	INZ LOOP; whether country reached zero?								
	HLT									
*	END									
9.7	Identify the cor	Thenhify the contente of register, memory location (2055H), and the flags at								
	following in		•	V						
	0		1			,		(decimal)		
	INSTRUCTION	_A	Н	L	S	Z	СУ	MC2055 H)		
	,	00	00	0.6	0	0	0	0		
	LXI H, 2055H	00	20	55	0	0	0	0		
	MVI M, 8AH	00	20	55	0	0	0	138 ((8A)H)		
	MVI A, 76H	FIG	20	55	0	0	0	138 (18A)H		
	APD M	00	20	55	0	1	1	138 ((8A)H		
	S1A 2055H	00	20	55	0	1	1	0 (00H)		
				0 0						
	A 76)	0100						
	+ M SAH 1000 1010 (Zero Aag set)									
	Ca	my gener	ated	CY=1]	Ccarry A	og set)				
				×-						
			UBMITTEL							
	UI9CSOI2 BIIAGYA VINOP RANA									

Vision