7-9. Suppose AL, BL, and CL contain ASCII for some alphabetical character.					
Note that ASCII for 'A' and 'B' are 41h and 42h, and ASCII for 'a' and 'b' are 61h and 62h.					
7. Give a logical instruction to change the character in AL to lower-case if it is upper-case. (No change if it is already lower-case.)					
Instruction: ONO AL, 10 III 0 If AL had 'C', after value in AL: 63h (in hex)					
8. Give a logical instruction to change the character in BL to upper-case if it is lower-case. (No change if it is already upper-case.)					
9. Give a logical instruction to change the character in CL to upper-case if it is lower-case and change it to lower if it is upper.					
Instruction: YOY CL, 6010 0000 If CL had 'G', after value in CL: // (in hex)					
7. 10 = 0160 0011 8.1e(50 110 0101					
1c, = 0100 0011 (E, = 0100 0101					
9. /G' =0100 0111					
g = 0110 0111					
10. Give an "and" instruction that replaces a number in DX with the remainder of the number when divided by 64.					
Instruction: and dy, OOII III If DX had 541d, after value in DX: If DX had 541d, after value in DX:					
11. Suppose the register CH contains an unsigned number whose value is between 0 and 9.					
Note that ASCII for the characters, '0', '1' and '9' are 30h, 31h, and 39h.					
Write a logical instruction to convert the value in CH to the ASCII for the decimal digit corresponding to the value.					
Instruction: Add Chy OOII OOOO b If CH had 4d, after value in CL: 7D (in hex)					
10.541d=6010 0001 1101 8/4/2/1					
and 0611 1111					
6001 1101					
1.49=0100 1101					
add 0011 00002					
0111 1101					
7 0					

Part I. 1-3. For each problem, give the value in hex after the instructions have been executed.					
	Instruct	ions	After	Show work	
	ov ax,	0AF75h	AX:0075h SF:0		
	ov bx,	00FFh bx	AX: OUT OF SF: O		
m	ov bx,	0AF75h			
2 m		0FF0h	BX: AFF5h SF: 1		
	ov cx,	CX 0AF75h	BX: / CV / SF: 1		
3 m	ov dx,		cx: SF7Ah SF: 8		
		dx			
MAF	75h=00	00 1010	1111 6111 0101		
			0000 1111 (11)		
00		dana	0000 6111 0101	9/11/26	
	SF:(10	0 7 5	8/4/2/1	
a_					
OAF	75h=00	00 1010			
0ff0h=or 0000 1111 1111 0000					
0 1			6 1111 1111 0101		
	SF=1		F F 5		
1	Sr.,	1			
)	25 00	v 1010			
	75h=00				
OFO	OFh= xou	- [11]	0000 0000 1111		
		010	010111101111		
	SF:	0/5			
4-6. Sup			8 true/false values:		
		on .data db 0F0h			
4. G			e "true" in bits 1 and 4 without alte	rring the other bits, and give the after value in hex.	
				After value in Flags: F2h	
5. Gi	ive a logical inst	ruction to store	"false" in bits 2 and 5 without alto	ering the other bits, and give the after value in hex.	
				After value in Flags: DV h	
6. Gi	ive a logical inst	ruction to chan	ge truth values in bits 3 and 6 with	out altering the other bits, and give the after value in hex.	
In	struction: XO	byte	Ltlags); 010010	After value in Flags: 58 h	
4.	OCOL				
	Oro				
7 7 7 9 3 2 1 0					
	1111100000				
	Ш_	-			
√ or					
7 1 9 4 3 2 1 8					
111110010					
0 £ YL					
5. 4 3 4 3 4 1 4					
7 1 1 1 1 0 1 0 1 × 10 1					
			. V		
7 8 9 4 3 4 1 8					
111010000					
000					
۶. Du ۲۱					
7 7 7 4 3 2 1 0					
1111110000					
A = 10					
Ben					
Can Can					
1 0 0 0 5 13 E 10					
			B8N	8/4/2/1F:15	
				XIVIZI	