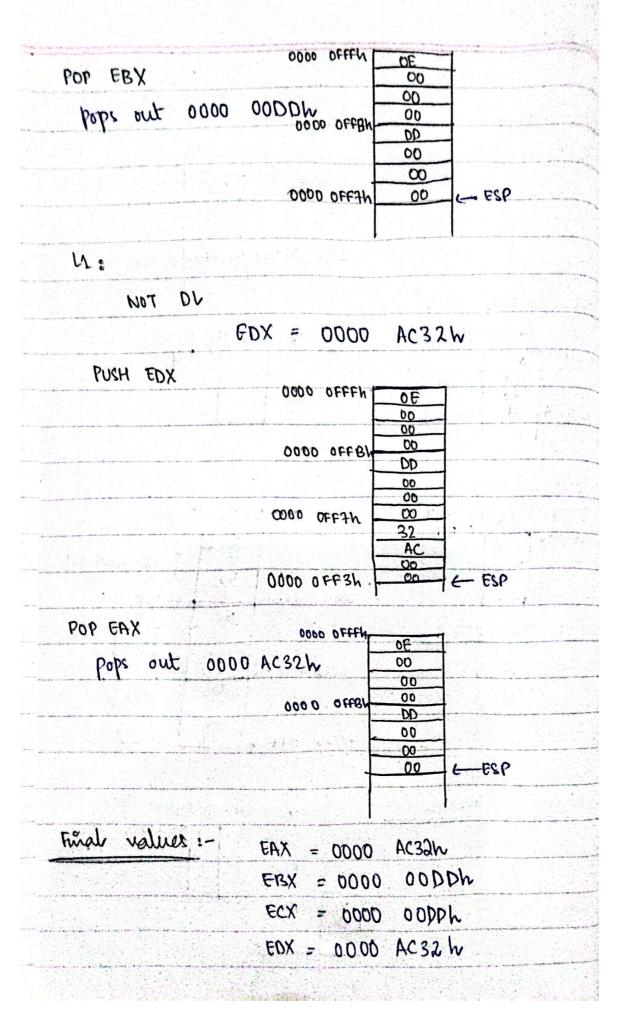
23K-08A5 Sec & J KINZA AFZAL as (a) EAX = 0000 000DW ECX = 0 000 0000h ED X = 0000 Ø ABCDW ESP 0000 OFFFL ESP = 0000 OFFFW ADD AX,1 EAX = 0000 000EW INC DH EDX = 0000 ACCO W 0000 OFFFN PUSH EAX 00 00 OOOO OFFBH CCOO OFFFW PUSH ECX OF 00 00 0000 OFFBh 00 DD 00 00 00 0000 OFFTh CMP (H,O ; Equal In 2 LL : since CH is 0 so this instruction is not executed 0000 OFFFh OF PUSH ECX 00 go 00 0000 OFFBL DD 00 0000 OFF Th 00 00 0000 OFF3h + ELP



01(6)	
call Circir	
IP = 0040 1000	$\frac{10000}{1000} = 0040 = 0023$
	0000 OFFBh 00 + ESP
ret (cursor)	
0000 OFFBH 05 ESP	- 1P = 0040 1005
call traysum	
100 OFFFW = 0040 1014	> 1P = 0040 102B
usus est ecx	0000 OFFBH 00 - ESP BC - 07 - 00 [esi]
	0000 0F7h - 00 - 05 - [ecx]
	0000 OFF34 00 CESP
return (maysum)	18 = 0040 1019 FIE ESP
push 0	
	00 ← ESP

Q2(a) Incupe Irvine 32. The · data list BYTE "computer organization and assembly language", D to Replace BYTE msg found BYTE "Here is the updated array or string", O meg NFound BYTE Sorry, character not found in array or string 1,0. flag BYTE O · code main PROC call Readcher mor tokeplace, al mov est, offset list mor al, tokeplace mor bl, @' mor ecr, size of list mov edx, 0 11: mov dl, [esi] cmp dl,0 je check-found cmp dl, al gne next-char

; explace with '®1 mov [esi], bl ; flag = 1 mor [flag], 1 next_char the exi ; move to next character in string or array loop L1 comp [flag],1 je display-found imp display_not-found display - found & mor eax, offset magfound call writestring call crif mov edx, offset list call writestring ; to print modified array. jmp program-end display_not_found: mor eax 10ffsET msgNFound call writestring program end call coff call sumplegs ext main ENP END main

Include Inme 32. the	
-dala	
myarray BYTE 10	00 pup(0)
. code	in the state of th
main PROC	tion to the state of the state
mov ecx, 10	00
while loop :	1000
cmp ecx	MODIO HOOMFOOD JOO DON
it end-wi	hile i If i'co, exit loop
amp ecx	,100
jg end_u	while, If \$>100, exit loop
TWOV ac,	myarray lecx 1 1000 to 1000 value
mov myan	ray (ecx +1), al ; myarray [j+1] = myar
mov myan	ray (ecx + 1), al; myarray [j+1] = myar
nov myan	ay (ecx + 1), al ; myarray [j+1] = myar ; j=j-1
mov myan dec ecx jmp while_1	ay (ecx + 1), al ; myarray [j+1] = myar ; j=j-1
MOV myan dec ecx jmp while_1 end_while	ay (ecx + 1), al ; myarray [j+1] = myar ; j=j-1
mov myan dec ecx jmp while_1	(ecx + 1) , al ; myarray [j+1] = myar $ (j = j-1) $ $ boop $
dec ecx jmp while_! end_while call Dumplegs	ay (ecx + 1), al ; myarray [j+1] = myar ; j=j-1
dec ecx jmp while_ end_while call Dumplegs exit	ay (ecx + 1), al ; myarray [j+1] = myar i j=j-1 boop
dec ecx jmp while_ end_while end_while call Dumplegs exit main ENDP	$ \hat{j} = \hat{j} $ $ \hat{j} = $
dec ecx jmp while_ end_while end_while call Dumplegs exit main ENDP END wain	ay (ecx + 1), al ; myarray [j+1] = myar i j=j-1 bop

83(a) ar = 02h MOV CL, 2 AL = 1000 1100 MOV AL, 8Ch BL = 1100 1000 MOV BL, C8h AL = 0011 0000 (30h); SHL AL, CL CF = 0 BL = 0011 0010 (32h) SHR BL, CL CF = 0 CV = 03h INC CL Arithmetic Eight shift ROD Aby SAR BL, CL BL = 0011 0010 kt shift 1-BL = 0001 1001 2nd shift 1-BL = 0000 1100 3rd shift:-BL = 0000 0110 (06h); CF=0 N = 0011 0000 ROL AL, CL first rotate !-AL = 0110 0000 ; CF=0 Second rotate: AL = 1100 0000 ; CF =0 third rotate i-AL = 1000 0001 ; CF =1 (81h) ac Clear carry flag, CF=0.

DEC Cr 1 4 = 02h AL, CL AL =1000 0001 ; CF =0 RCL 1st votate i-AL = 0000 0010 ; CF = 1 and rotate: AL = 0000 0101; Cf =0 set carry flag CF=1 STC rolate carry rights BL, CL RCR BL = 0000 0110 ; CF=1 1st votate:-BL = 1000 0011 ; CF = 0 second rotate: BL = 0100 0001 ; CF = 1 (41h) SHRD cource AL = 0000 0101 (05h) BL = 0100 0001 (41h) SHED AL, RL, 2 final value = AL = 0110 0000 ; CF = 0 (60 h) SHLD BL, AL, 2 AL = 0110 0000 (60h), BL = 0100 0001 (41h) After 2 shift final value of Bl: BL = 0000 0101 (05h), AL = 0110 0000 (60h); (F=1

03(b) 0 to 4 bites seconds, 5 to 10 - minutes 11 to 15 -> hours , -> WORD seconds, Minutes, Hours DH DX11 10 7 8 7 6 00,11001101010 register 0 21-11 5-10 secondo minutes hours In seconds for this cabove) value of DX Seconde in decimal are 8-10 168 4 21 01010 32 16 8 4 2 1 8+2 = 10 sec Minutes :-0011 1 1 16+32+2+1 =51 min 0 0 1 0 0 Hours :-4 hrs 1. This is just a dry run of my arrumed value, the output. 80 as

mov dx, 00100110011010b; assumed mov eax, 0 mov al, dl ond al, 000111111b mov Seconds, ax; seconds extracted mov ax, dx str ax, 5 and ax, 00111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	第一句图
Seconds NORD? Minules WORD? Hours WORD? code main PROC mov dx, 0010011001101010b; assumed mov eax, 0 mov al, dl and al, 000111111b mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 001111111b mov Minules, ax; minules extracted mov ah, dh.	
Minutes WORD? Hours WORD? code main Proc mov dx, 00100110011010b; assumed mov ear, 0 mov al, dl and al, 00011111b mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 00111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	
Hours word? code main Proc mov dx, 00100110011010b; assumed mov eax, 0 mov al, dl ond al, 00011111b mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 00111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	The Paris
main PROC mov dx, 0010011001101010 ; assumed mov eax, 0 mov al, dl ond al, 000111111b mov Seconds, ax; seconds extracted mov ax, dx strx ax, S and ax, 00111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	
main PROC mov dx, 0010011001101010 ; assumed mov ear, 0 mov al, dl and al, 0001111116 mov Seconds, ax; seconds extracted mov ax, dx str ax, 5 and ax, 0011111116 mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	71
mov dx, 00100110011010b; assumed mov eax, 0 mov al, dl ond al, 000111111b mov Seconds, ax; seconds extracted mov ax, dx str ax, 5 and ax, 00111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	
mov ear, 0 mov al, dl and al, 0001111116 mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 0011111116 mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	1 196
mov al, dl and al, 0001111116 mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 0011111116 mov Minutes, ax; minutes extracted mov ax, 0 mov ax, 0 mov ah, dh.	d value
and al, 0001111116 mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 0011111116 mov Minutes, ax; minutes extracted mov ax, 0 mov ax, 0 mov ah, dh.	<u> </u>
mov Seconds, ax; seconds extracted mov ax, dx str ax, S and ax, 001111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ah, dh.	10
mov ax, dx shr ax, S and ax, 001111111b mov Minutes, ax; minutes extraded mov ax, 0 mov ax, 0 mov ah, dh.	
mov ax, dx shr ax, S and ax, 001111111b mov Minutes, ax; minutes extracted mov ax, 0 mov ax, 0 mov ah, dh.	
shr ax, S and ax, 001111111b mov Minutes, ax; minutes extraded mov ax, 0 mov ah, dh.	1
and ax, 001111111b mov Minutes, ax; minutes extraded mov ax, 0 mov ah, dh.	
mov Minutes, at ; minutes extraded mov ax, 0 mov ah, dh.	
mov ah, dh.	1.1.
mov ah, dh.	1.10
mov ah, dh.	
	2.52
shr ah,3	i (i)
and ah, 00011111b	
mor Hours, ax; hours extraded	
all Dumplegs	
xit nain ENDP	