## COMPOTER ORGANISATION AND

ASSEMBLY LANGUAGE. Date\_ BASIL AU KHAN 20K-0477 A SAGNMENT 11) 0000007Ah 011110106 NOT -> 1000 010 1b. AL > 000000085h Ans. 00000074h 0000 00 30h 011101006. 001111016 001111015 AND-> 01110100 b 001101005 AL=) 00000034h Ans. 00000035h. 0000009Bh. C) 001101016 100110116. 100110115 Ol-> 00110101h 101/1/11/6 AL => 1000000BFh Ang. ODOOODOCK. 000000724. d) 11011100b 011100106. 011100105 x0l-) 11011100 b 101011105 000000 AEh AL=> Ans

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(ii)
In mov and, offset var 1, the instruction is returning
the address of a data label or offset offset
is the desplacement of number of bykes from
the beginning address of data segment.
In mor eax, vor 1, this instruction is copyrighthe value stored in vort in eax registers.
the value stored in vort in eax registers.
(iii)
1)A stack makes a convenient temporary storage
area for registers when they are fused.
2) When a submodified is called the CPU saves the
· current subtroutine rehin address.
3) Stack also stores local variable
4) Stock is also helpful in passing and rehining values from procedure.
rehining values from procedure.
A STACKS AND A STACK AND A STA
(IV)
a. EAX: 00009 ABCh.
ь. Bx: 00009ABCh
e. ECX: 00005678 h.
d. ESP: 000000F4h
100 100 100 100 100 100 100 100 100 100
a 30111311(V)
additional instruction are:
push esi.
push ecx.
tan de la constanti de la cons
pop ecx
pop esi
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And was the second of the second

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D D D = 000	(vi)	( )	a Asia	5 703
A, B, C, E 40	riegal	insn	adin,	- 47
	(		-111	- 4 : 103
444 bytes.	(vii)		101:5-	
444 bytes.				5 1 19
•	1.52.54			E 17
	(viii)		112.2.	( : 1:2
			2 = v	3
			24 =	103 10
				A53
			1.0400 =	X37 I
			1-0401	x = 3
		T W		
The second second	With the	i ev	16 1 S. 150	A A
			272	£
				,
	(i x )	1 (!)		
	AH = I		AH = 2	AH = 3
14 V1 = V2		(18)		~
then			man alg	8.6
		130		
1f V, L V2			1	3 - 2 4
the		iv		
			10000	0 - 143
1f V, >V,	L	-37	-	
then,				0 - 1030
The state of the s				
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(xiii )	
NO, instruction operand must	hase some size.
[XIV]	Y 32.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
No, Both are memory boothor	)
(x0v)	444 445 des
EAX = J $(XVI)$	
	C / NO.
No, Both are memory location	1 CONT 1/100 1
(XVID)	
No, istruction operand must be	ve some size
415.7	100 D
AX = FFFFFF6 h. (-10\$)	1. Ext view
AX = FFFFFFF A. (-108)	E 11 1
	3
(xix)	- San'A sea'l at )
Not in Syllabus.	280 4 200 - 51
V	
(X X )	CM 212 803
a al = 0000006Ah.	180
b. al = 000000 EAL.	
	(XXIII )
(XXI) $(XXII)$	
a. CF = 0 a. CF = 0	a. CF = 1 b. OF = 0
b. OF = 0 b. OF = 0	
c SF = 1 c. SF = 0	c. 5F = 1
d. ZF=0 d. SF=0	d. 2F 0
, , , , , , , , , , , , , , , , , , , ,	And total
(XX)	1,051-2
Eax: OOOOFFFFh.	elide: Inc. as con
	t type
Signature RC	No
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/ x	xii )	
For JB:	FOR JL:	
mor eax, FFFFh	moveau, 7F	
mor ebx, 8000 h.	mor esu, la	och
comp ear, ebx	comprease, es;	
Jb LI	Je Lz 5	no v 21,2
mor x, 2	JMP 400.	
Imp L100	4:	142
Li:	mov X,	7
mov x, I	1100 :	1
Lio:	exit	
exit	man ENDO	
mun ENDD	ENO main	111
END MAIN		
0	1 1/11	
QUESTION #03:	71/23	1
	(a)	
while:	( x x )	
Comp op 1, op 2.	40000	
Ig Enda!	467	300 - 1
emp '0p3, 0p2	(see Trees)	(1)
Je Li	3 - 3 - 6	3 . 3
Je 4, 10	0 570 6	05 = 1
Imp 4:00.		1 176
	i - m. k	71 2 :
add y, 2.		
L100 :	(KX)	
cades Imp while.	47147	
end:		

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(5)	2 5 30 123
·data	18 2 7 2 1 N 2 LIV
Vall DWORD 20	d ve ve
Val 2 DWORD 14	The second of the second
Val 3 OWORD 12.	2 4 4 5 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
* 00000 ?	
· co de	
main proc	STA THE PROPERTY.
com mov eax, vall	12 12 12 12 12 12 12 12 12 12 12 12 12 1
mov esx, val 2.	11 21 -
emp eax, ebx.	20, 20, 70.5
	T 2 2 2 2 1
$mov \propto 2$ .	20 July 1978
Imp LADO	27 = 27
Lj:	en Eg ? a a a
cmp esx, val3.	SOL VENEZ
Jg 62	1100 600
Tap mov 2, 2.	37.50
Imp 6100	* C D*
La:	10, 15, 100
mov x, 10.	3 - 55
400:	1995
exit	(6)
main ENDO	1 100 CO. 18
END moun.	100 100
,1	
(11)	and the training
·data	112 112
x 1000 10	-c :
Y MORD 20	ي د د و و
2 1020: 30	William ORSE Com
. codo	11/10/11
main PROC.	niem Aust
	No

	Dete		
(iv)	The second second		
INCLUDE WIN32 inc	501.30		
		A 164 Table	
· code			
Push 5			
Rish 2			
call Binomial			
mor eax, edu			24
call writedee.			
exit			
main ENDP.		200	1
		100	
Binomial PROC			
Push ebp.	call Binomia	L .	- 1
mov esp, esp.	pop esx	. 3 3	- 3
push eax	adol etax, es	dn	- 1
push elex	Imp end	- (3	110
mov eex, (ep +8)	-	25)	1
mov ebx, [ebp+12].	cese1:	1 111	380
compean, esse.	mov edn	10	- 17
Ja Base I	Imp end	312 6	100
· cmp con , O.	Case 2:	12	12
Je Case 2	movedas	2,00	. The
dec esil	end:	J 83	- 1
Sub ebn, I	pop esc.		18.
push esse	popeox	235 72	4
pusheox-	1 1		2012
call Binomial.	Popebp	1 12 10	
push edn	Binomial En	PP	- k
inc eax	END main.	- 10	3
push ebx		4	
push ear.		aw.	

Date\_ (0) INCLUDE Irline 32. Inc · code -> main PROC push 5 push 2 call Dower. call Writedec exit moun ENDP. POWEY PROC push esp mov push esx mor usx, ebp+8, mor ecx , exp+12 cmp ebx, O. Case. sub eba, 1 push ect. push est call Power mul eco. Imp end case: mov eex, 1 end: popeda POWER end P. END man.

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(V	
INCLUDE ITTINGS inc.	100000000000000000000000000000000000000
· code	
all readint	
push eax.	Commence of the second second second
Call Factorial.	
call writedec.	
exit	
main ENDP	
	A Little Little
Fadovial PROG	1000
push esp.	the transfer when he was
mor esp, esp.	A 13. 18.67
mor con , [esp + 8].	The state of the s
emp eax, o.	100
Jg LI	422 4594 11
mov cox, 1	++10 708 113
Jap La.	· 2274 ' 22 080 -
L1:	1.00
dec eon.	
push ax	197 187 187 19
Call Factorial.	
mor elx, [chp+8].	100 /112
mul esa	
Lo:	7 2 2 2 3 3 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
pop etg.	POST PROFILE TO
Net 4	
Factorial endl.	
	Section of the sectio
	7 7 M. T.

The state of the s		Date
	(VI)	
cente.	(VI)	047
MCUDDE brine	132.inc.	
· data		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ans word 1	0,4,7,14,3	
Count dword.	- length of arr.	
inder onoro	0.	The second of the second
·code		
main PROC.		3 1 36
mov cox, o		
mov esi, o.		5 5 7 7 8 7 8 7 8 8
mov. eex, les	79th of OST.	7 19 19
mor esu, o	J	The state of the s
move edujo.	2	The same of the sa
Li		D 750 700
push ecx		12 53
mor ect,	count	1 777 1.16
mov edi,	index	and the second
L2:		
mov da	, orr (esi J.	777 398 23
cmp dx	Jor [edi].	7 - 5 - 7
Tg Sive	ip.	. See that they are
Imp Li	00-	- Later Contract Charles !
Swag:		Duck .
	bx, axi sedi].	J J.
no	(ayilesi), bx	673 426
mo	for ledi), dx	
· L100:		Carlotte St. Land Steel
add	edi, type ass	
Loop L 2.	07	
add index 2		
dec count.		The same of the sa

add esi stype our

loop ecx.

Loop Li

exist mun ENDP END man. (Vii) SELECTION SOLT Incurat Invine 32 inc. · datai PWORD ? can't avolp @ longth of orr. · code . . . mor ecc, court-1 ... tee: mov esi, o. 4: mov i, esi push ecx. mor ecx. count Box mov edi, esi + type arr 12: mov eex, ory (est). The index and sole of type cxx index? mov i, edi. moved to arr (i) mor arrives is edx.

		-
add edi, type ar		
Lap La		
add esi, typ arr		"
pop eca		
Loop Li		
ext		
moun ENDP		
END main.		
	- 12 13	
D#4		
	(i) leto	
include brine 33 inc.	(1) »data.	
	Revision_Court WORD ;	
· Code	Status HORD ?	
	Sensor-Data DWORD 3	1 5
and bx, coco 1111111		1
mor sequence - Numbe		3 - 8
		- 1
mor by ax		
Shr bx , 12.		
and be, occocco	0000001116.	
mor Revision_ Count		
mod prox	Track to the second of the	13
5hr bz, 15		
mor Status, bx.		
mor esx, ear.	The state of the s	
shr eba, b.	THE STATE OF THE PARTY.	
mov Sensor Dates	,65%	

7.3	Date
	$(\tilde{n})$
	(#)
·data	
X OWORD ?	
· code	
main PROC.	
mov eox, X.	
mor elx, eox	
mov ear, ear.	
mov edx, eem-	
she ecx, 4	
Shl Cbx,2	
she ecx, 1	13.2 3.50k
add ear, ebx.	1 15 25 - 1 - 22 - 102 - 1 - 12 - 1 - 2 - 1 - 2 - 10 - 1
add est, eix	
add to eax, x.	
east all wilkdee	The state of the s
exit	150 Kad 800
man ENDP	of Contract of the second
END man,	the said they have been
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(11)
· ESP : 0000 / FF8h	
ESP : 0000 1 FF 8 h.	The state of the s
EAX: 116	
Esp: 0000 2010 h.	
X2:38h	- 8'-9 '9' k
23: 36h	
EIP: 115 000 20 h.	7.49
CIP ,	
	The state of the s

Control Charles W. W.	Lets
A	
(1v)	
triclude Invine 32 inc	The state of the state of
·dota	
source BUTE This is a source	stong", O.
taget BYTE?	
temp. BYTE ?	Y
	400
· code	
ess mov esi, O.	ment the nates
mor elex, length of source -1.	
L <sub>1</sub> :	T 2 2 3 1 7 19
push ect	1.757.765
mor coly, source [esi].	
mor ecz leigth of temp.	15-10-10-10-10-10-10-10-10-10-10-10-10-10-
L2:	4. 75. 53. 3
mov ebx, kmp (edi).	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
comp ebajedi.	The same of the sa
Je L3.	17.00
add edi, type source	1.01 1.03
Loop 62.	
Jone Ly.	
L3:	13 . 193.
mov taget (esi), edn	
. Ly:	
addesi, 4	18
popecra	V. 1 - W
60061	1 2 2
ext	52 - 21 43
main EnPP	
END movin	100

	(V)			
INCLUDE ITVINESZine				
data.				
String BYTE 128 00	P/0 11			1000
String BYTE 128 DU	P( = ).			
· code				
man PRUC				
mor eda, offsets	tag.			
movecx, to le	ngth of	storg		
call readstry.	J	0		
mor ecx, eax.				
mov est, offset s	57829.			
2,:	J			
mov dl, (osi).				
comp all, 32.				
Je L2				
add al, 32				
mov (esi),all				
L21				
push lesi).				
add esi, ty	pestry.			
Loop L,	,			
mor een een-				
mor esd, offset	rev	1220	(est)	PYTERTR
La:		AND S	gent son	seller
pop less]	_ 200	COR &	kit	
add esu, type	rev.			
Loop 13.				
exit!	<b>/-&gt;</b>			100 W. T.