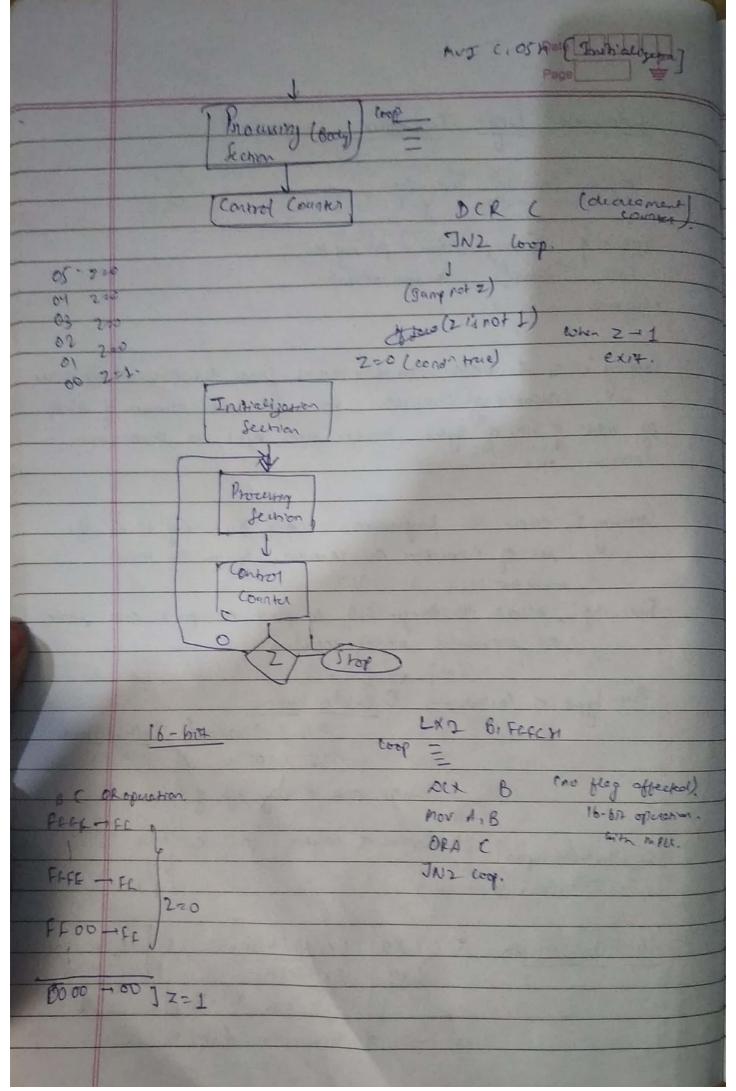
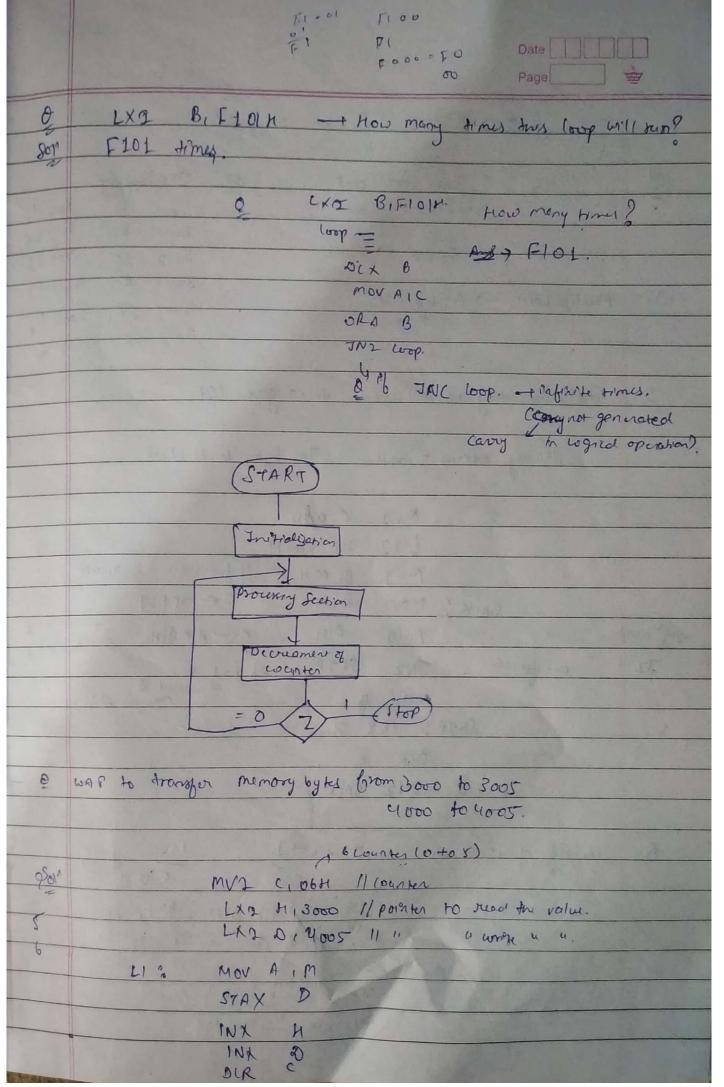
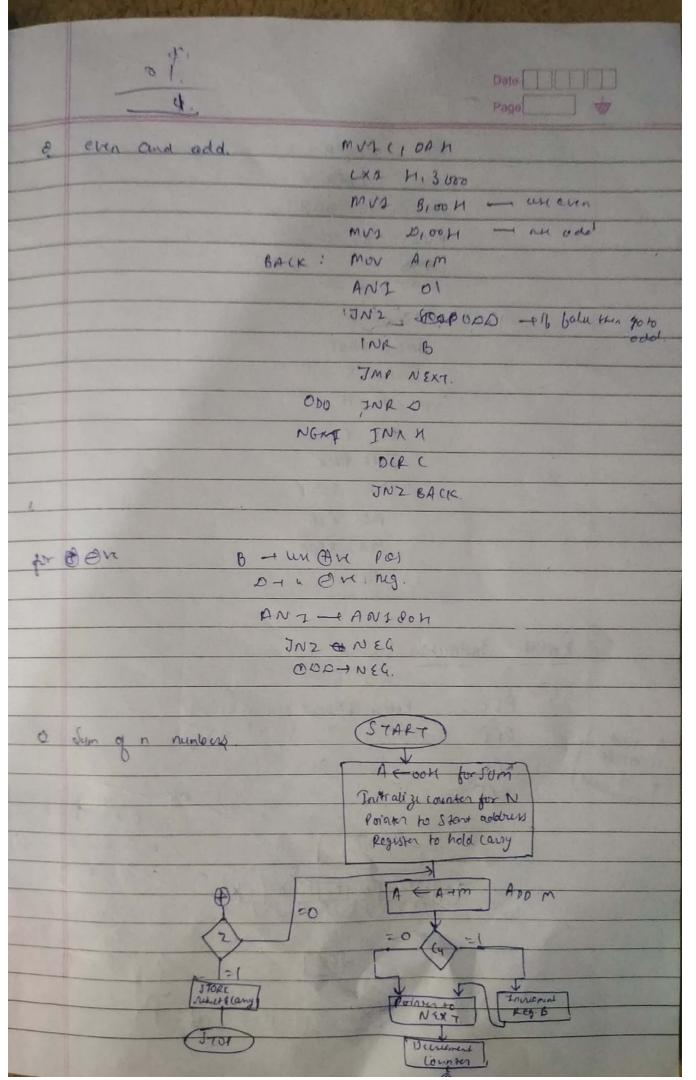
	Oate CO
Module D	Page g
Advanud Progr. Technique	A Tombook State
leoping, Counting, Indening	
	Color Color Color
Republica of Howmeny Refer or pointing to	
Repetition of Howmany Refer or pointing to task times of the mem address	THE RESERVE OF THE PARTY OF THE
no gome	
0	THE PERSON NAMED IN STREET
looping: " he basic structure which for	as the MPU to regent the
sequence of instruction for a part	
eg add of no. of bytes , transfer mem. by	
Location. etc.	
Counting: allow the programmen to count	how many times the
set of instruction on executed.	by tou the MPU.
method that	
Endening allow the programmer to point	or ruger the data stord
Endening allow the programmer to point at sequential memory locations.	
. 0	
Pur types of Counter - O 8-61st counter	
mvz k, B-1	widotaly Initralization
	H. J Section.
assign value to any	rug. a mpu.
h limit thin water max value of counter m	010 c/2 cdx. 2ª-1.
201101410	
255 times. So we arry	FFH.
	110
2 16-619 country: LXI Rp, 16 614 to	
LXIT DITTELL	
	16-1.
axign value to stig. pair	of mpcl.



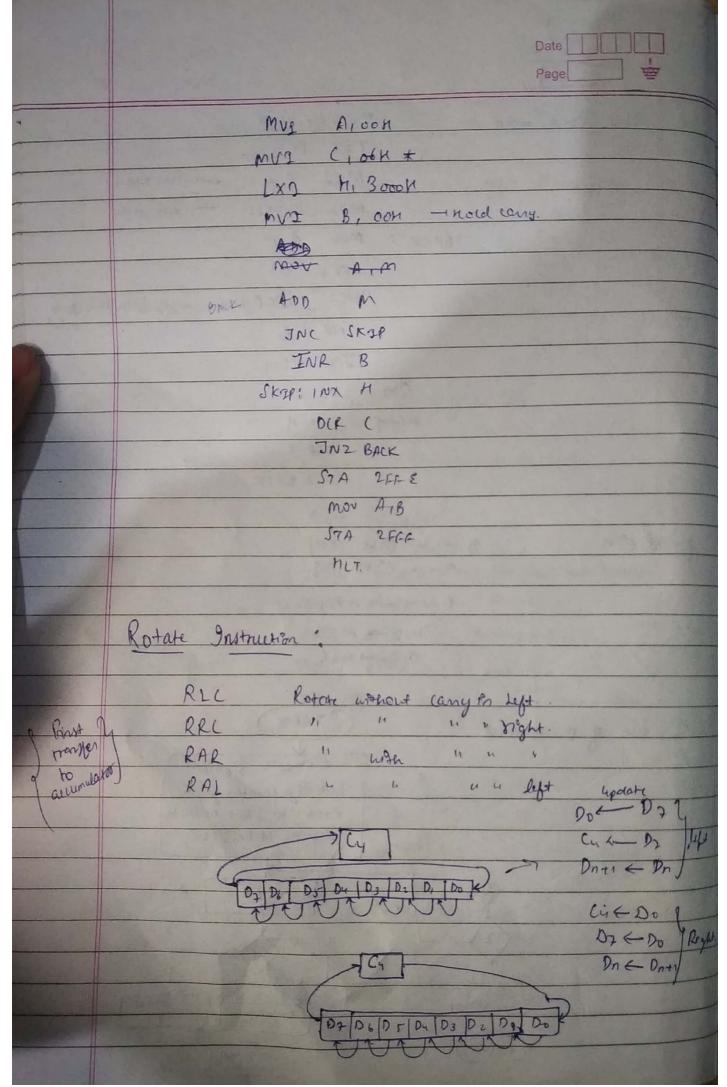
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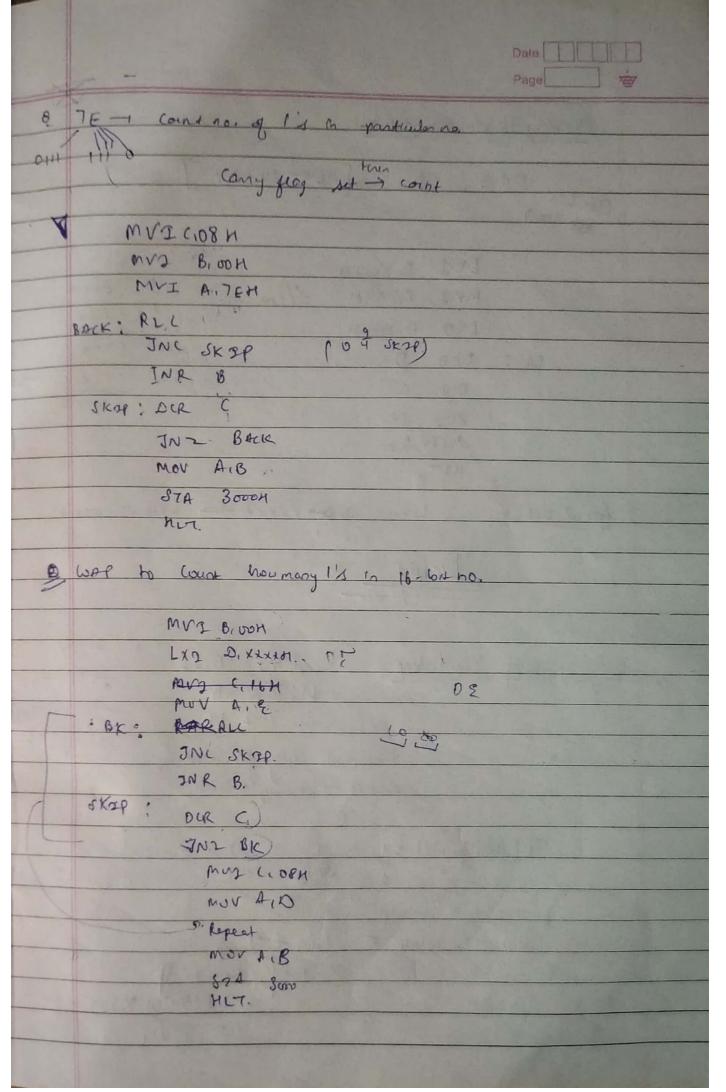


	Date		
	Page		
1	JN2 L1		
01	Copy 3000 -4005 or overlapping		
	5001 - 4004 3000 1g 3002 1g 1		
	3005 74000 3002 3F 3003 2F		
0.0	3003 40 3000 41		
83	3004 SF 3006 80		
	3005 6F 3007 6f		
9	And how many no are even in a given Ust.		
12000			
	Starting address = 3000H Ten bytes to be check.		
	MV3 C, OAN		
	Lx2 H, 3000H		
	Mrg B, 00 H // for Hold the rescuet.		
	BACK! MOV AIM AEMENLY		
JNJ com	AND OIN, ACAVOIM = 1110 5=T		
72	enforodod JNZ SKJP ib 2=1 thin INR B Inniemint B otherwise skip.		
	INR B Muchan skip.		
4.	SKZP: INX H		
	DCR C		
	JNZ BACK		
2			
<u>S</u>	(outry of G 12 no 27→1. 1000 0000,		
/	JNZ Chart, JZ.		
>	for Alve		
	Joz chant JNZY Dre		
· -	- ANZ VIN CACH, ANZ BOH)		
Sty Marie			



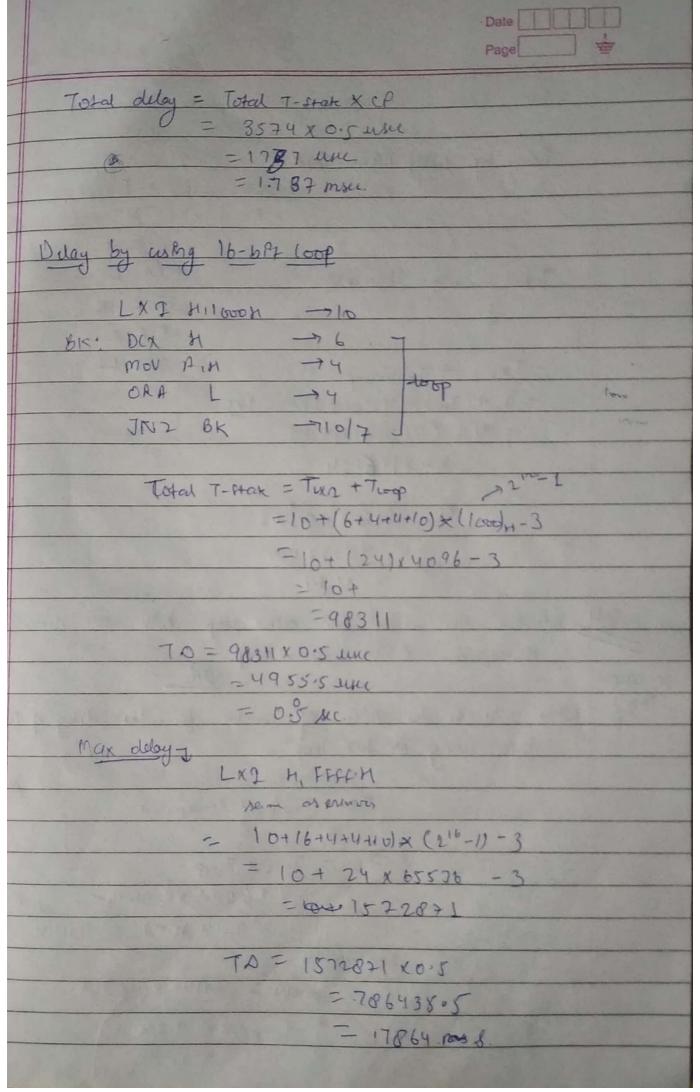
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Marphy 16 hr mm a bits DAD D [ME MINDE] OMERON LY1 DIXIXEM MY2 CI XXM [Monarch Mi overo LX2 HISTERM EX : DAD D Mr XXXX DIR C D2 XXXX JNLD 3000 MLT. LX2 DIGGS XXXXX > LX2 DIXXX H DC(ay DC		Page
LV1 DIXICIA MV2 CI XXH Laurel Mi anno LX2 HI OSTEM EX: DAD D M XXXX DIR C D2 1122 JNLO 3000 NLT. LX2 DI OST XXXXX -> LX2 DOXX M Delay Delay LI: Der 6 -47 37 Has much delay generated with the control of t	Muniphy to ber wow & bits	
LV1 DIXIXEN MV2 (1 XXM // Lowers Mil overs LX2 HIGGSTEM DI XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Contract DAD D [N	LE MITOR]
MV3 C. XXM [/Lounder Mr overo LX2 HIGGRAH BK: DAD D MX XXXX DIR C D		
Delay Delay Delay Delay Director of the form of th	mys c zwi	11
Delay De		Houses Me ovo
Delay Delay Delay 1: Der 6 1: Der 7 1: Der 6 1: Der 7 1: Der 7 1: Der 6 1: Der 7 1: De		
JN2 8k JNLD 3000 HUT. LX2 DIGOTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
JALD 3000 HUT. LX2 D, 6000 XXXXXX >> LX2 DDXX H. Delay Delay L1: Der B - 47 - 45 JN2 L1 - 10177-101 Here much aday generated & when N is processo - frequency - 2 mm, much calle T (and prood) = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		- 141
ALT. LX2 D, GOT XXXXII -> LX2 D DOXX H. Delay Delay L1: Der B - 47 - 37 JN2 L1 - 1012 - 101 Processor - fragery - 2mm, mue leak T (and prood) = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	JALD 3000	
Delay Delay LI: Der B - 47 - 37 JN2 LI - 10177 - 37 Has much ada generated & war 13 protector - fuguery - 2mm, true talk T (and prood) = 1 - 1 = 1 - 5.5 x 10 ⁻⁶ \$ JMMS 2x106 = 0.5 M. Me. Part To Wrate = Tmy + Two The function of the true of the tru		3 3 35 35
May by using 8-bit loop MV2 GIFF LI: DCR 8 -47-35 JN2 LI -1017-16 Have much duly generated & wing 13 processor - frequency = 2mm, muc balle T (and formal) = 1 - 1 = 1 - 5-5 × 10 ⁻⁶ Johns 2×106 = 05 11 × 11 Part T. Wark = Town + Tung To (unit) × 255 - 3	for 8 612 Lx2 D, 6	DO XXXXX -> LXQ O DOXX H.
II: DCR B -47 -35 JN2 21 -10177-10 From much dulay generated of which fill	Delay	
II: DCR B -47 -35 JN2 21 -10177-10 From much diday garracted of white file processor - frequency = 2mm, muc make T (and prood) = 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		
T(and prod) = 1 = 1 = 2 = 0.5 x 1000. There with dilay generated & white falls T(and prod) = 1 = 1 = 2 = 0.5 x 1000. There with dilay generated & white falls T(and prod) = 1 = 1 = 2 = 2 mm. There is a series of the falls and the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls. There is a series of the fall of the falls are falls are falls. There is a series of the fall of the falls are falls are falls are falls. There is a series of the fall of the falls are falls are falls are falls. There is a series of the fall of the falls are falls are falls are falls. There is a series of the fall of the fall of the falls are falls are falls are falls. There is a series of the fall of the falls are falls are falls are falls. There is a series of the fall of the fall of the falls are falls ar	Delay by why 8-bit loop	11/1 6:51
T(and prod) = 1 = 1 = 1 = 1 = 10-5 x 10 ⁻⁶ Final To Whate = Town + Two = 7 + (4+10) x 255 - 3		ANZ 11 -10177-19
To Whate = Town + Twop = T+ (4+10) + 255 - 3	processor -	- frequency = 2 mm, mue falle
To Whate = Town + Twop = T+ (4+10) + 255 - 3	T (and prod) = 1 =	JMM2 2×106 = 0-5×10-6.
= 7 + (4+10) ×255 -3		
= 7 + (4+Po) *255 -3 = 3574		T+ (4 HOX 255)
= 3574		= 7+ (4+Po) ×255-3
		= 3574

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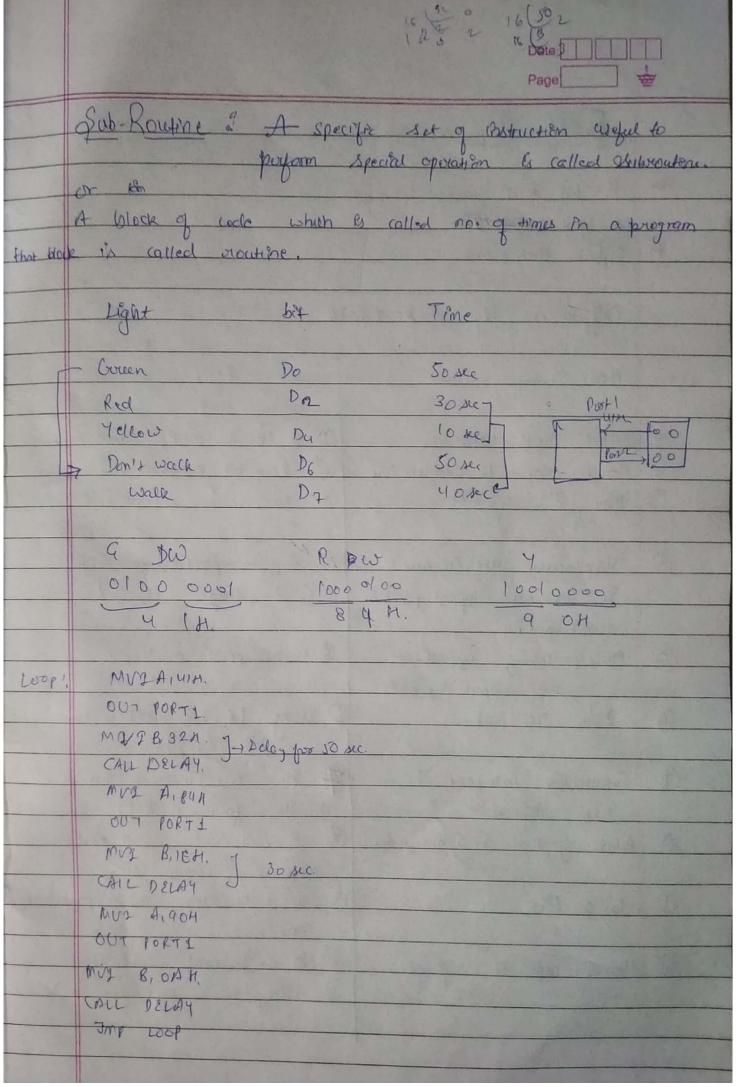
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	Page Page	
	O Mariana al Maria	
	For IAC LEX RESTORY	
	Dulay by using Nuneal Coop - MV2 Coops	
-		
	BIC: Da H	
	MOV A, H ORA L	
	Tintal 7- State = 98811+74	
	JN2 BK	
	DCR C JN2 L2	
	- Thuz + Touterloop	
	= 7 + (Torac + 4+10) x (counter) -3	
	= 4+ (98311+14) * 0)	
	= 4+196654	
	TD = 196654 x 0,5 mb	
	= 90327 MARC	
	= 11 ke	
81	Calculate the dilay for netted long both one care &	
1	Calculate the delay for misted loop both one Ponen &	
in cham.	Outer an D-64 rested loop.	
70	What will be the value of counter for the delay of lines	
	by using 8- bit loop.	
	TO- Tesah & Clockpered	
	That = Tmoz + Thoop	
	-7+ (UHO) x (comper) -3	
	= 2 A 14 N - 3 = 4 A 1 UN	
	1 ms = 1000 is	
	1000gs = 4+14n x0,5 use.	
	1000 = 9 + 72	
	996 =7n n=142.28 = 142	
	01 21 0 0	

Page Justs for 16-bit loop Stepl with counter a LXI dy XXXX (counter-n) -10 BK: DCX H MOV AIN ORA L -1017 JNZ BK $\frac{-10+24x-3}{=)(7+24x)} = 5mp$ = (7+24n) 1 = 5ms 0.5 My x (1+24 m) - 5ms 0.5 MS (7+24N) = 5000 mgd 7+24N= 50000 10000 24n = 10000-7 n= 416.37 = 416 = 416 =7 01A0 Am 0000 0001 10100000 256 write assembly language prog. to get square of a no. which is stored at the weating 3000 Store result at 3001. M 3000 ME LXD B, XXXXII morgina (Icon acc.) DRA A

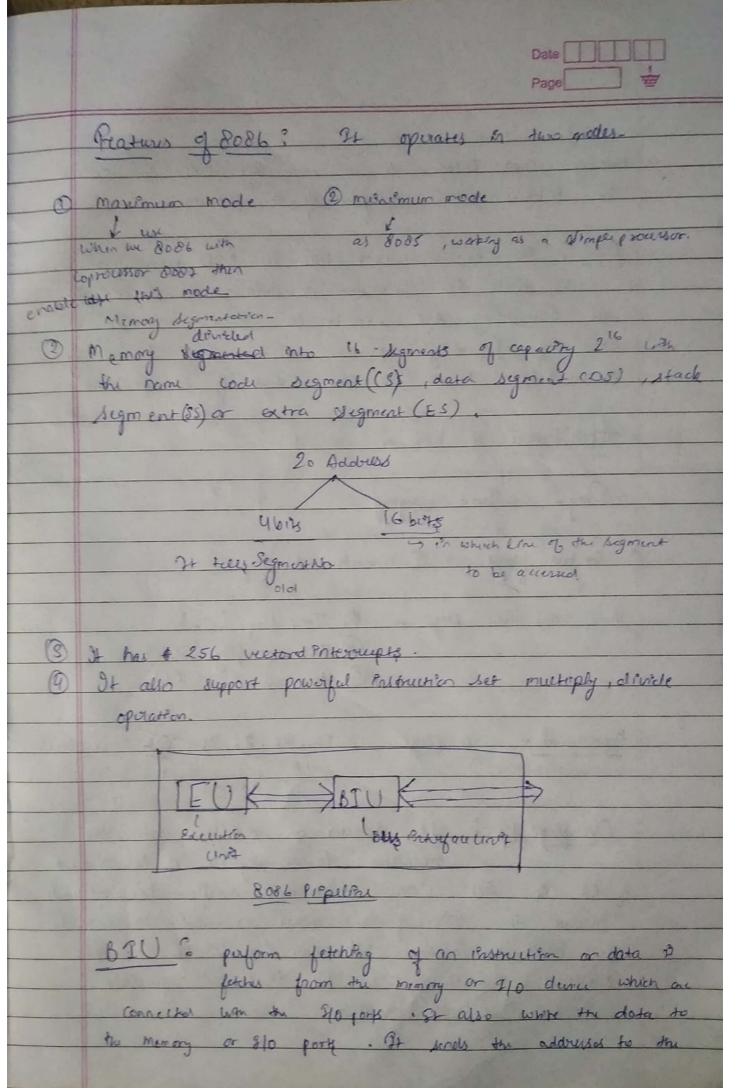
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		Page 4
	mov Bim	LX9 H13000
		MOV B,M
	wop ADD M DCR B	mov Crm
	JN2 Loop	BK: ADD B (NOT LOX
	STA BOSON 3001 M	N. C.
	MLT.	7012 616
	V	S1A 307 (16)27X
		HH.
	for 16 -bis Lxa. Som	M Nov On O
		WI DAD HOOB - DADB.
9/2	hind the min. I smallest no. in	the away of size 20 Starty
	from the mem. Location 3000	
		May do to 3 2 has been a like the same of
061	Divide a 16-bit no. by 8 bit number store both the results	
	quotient of rumarinder at the	Location 3000 \$3001 respectively.
	Decimal Adriust Accumulat	DAA
	0	Call State of Land
	47 add 6 j	result greater from 9 47
	<u></u>	
	41	1076
	77	64 Ay
Sop 1	' 8 E	
	1) 2 4	THE PROPERTY OF THE PARTY OF TH
4	4) 9+ is useful to convert in decornal form	

	Date T	
	Page	
=======================================		
-		
	Stack & Sub-Routine	
	Strick is a linear data Structure at mple hard it is	
	use accurred memory axes in RAM for storing temporary	
	Information to perform sund or write operation on to the	
	stack it was pop and push function respectively. It	
	means by using pop function you can ruthieur or delete	
	the value from Stack. Another sade by cusing push for the	
	if insert the value onto the stack It also ases	
	16-bit Stack pointer which hold the address of top element	
	that's why At B also known as top of the Stack with the	
madel	destignation SP (Stack porting).	
6	PUSH RP POPRP	
	PUSA B POP D	
	$SP \leftarrow SP-1$ $E \leftarrow M[SP]$	
	MESPJ (- togowhyte [87] SP < SP+1	
	SP F SP-1 D C M [SP]	
	MEDD ENWHYKECT SPEST.	
4	SPAL & load content of AL PRITOSP. SPEAL	
1-	PCHL: " C PC. PCEHL	
4	XTHL: exchange " MESPY => L	
	M CSP+17 C7 H	
4	PSW: Program status word.	
	RSW = Content of A + Content of Floor Hos	
	931 1200	
	Use ? O Tom Status of paging. PUSH PSW	
	BOD H	
-		



	Date	
		Page
•	8086 llp ?	
1>	16-box MUP.	
	diveloped 12 4886-1986	
L9	Pipelise Architecture	
	Differences blu 8085 880	86
	8005	9088
<u>a</u>		@ 16 1 mile 1
	8-bit MUP - Wordsize	16- biz MUP - Word Aige
3	Address Un - 16 adobress un	(2) 20 - bit address bus (3) mux. access 220 = 1 mb.
0	Max. 216 = 64k	(3) Max, access 2 - 1100.
Ŷ	Uniprocessor Architecture	O dippos figeline architecture
	It does not support pipeline	(2- stage " 4)
	architecture,	
(3)	Mutiprousing Support -	6 31 support multipoo
	Not Supron by 8085	
0	256 710 port	D Using 16 7/0 address 1749.
		26 = 65536.
9	Coprocussor Intoyace:	Has a coprocusor interface
	Not Support	in the form of 8087
0	Addressing mode 1 5 add nock	(8) 8 add mods (5 of and 8085)
(a)		and 3 of itself.
9	Cos A low	(a) (as is high as compared to
(Fo)	Men and along the	Bolls.
	Merory Spau es , segmented	(Segmented Coata, stack,
		program jegments etc.)



memory and parts. So us con by BOD By called the external word therefore of the processor. ED: The execution cont tells the BIO from where to fetch the instruction or data. It decoded me fetch Pollhuction and execute Pt. So we can say tops crow of performing operation on the data forested by The BIU. So of on the heart of the processor. Architecture of 8086? flag - Two category 1 Control flags (Conolitional glags There can show flags - @ Trees flag (FF)

(D) Intersupt flag (FF)

(D) Direction " (DF) Conditional - 6 flogs (FNDF, ZF, SF, OF (overylow) Overflogs flog . It indicates an overflow from the magnitude to the sign bit of the rusult of OF a Set an another overflow has occurred because the oblige of the result entereded the capacity of destination location. Whenever in 0086 through or overflow monutages available that will generate as intorrupt to the processor.

