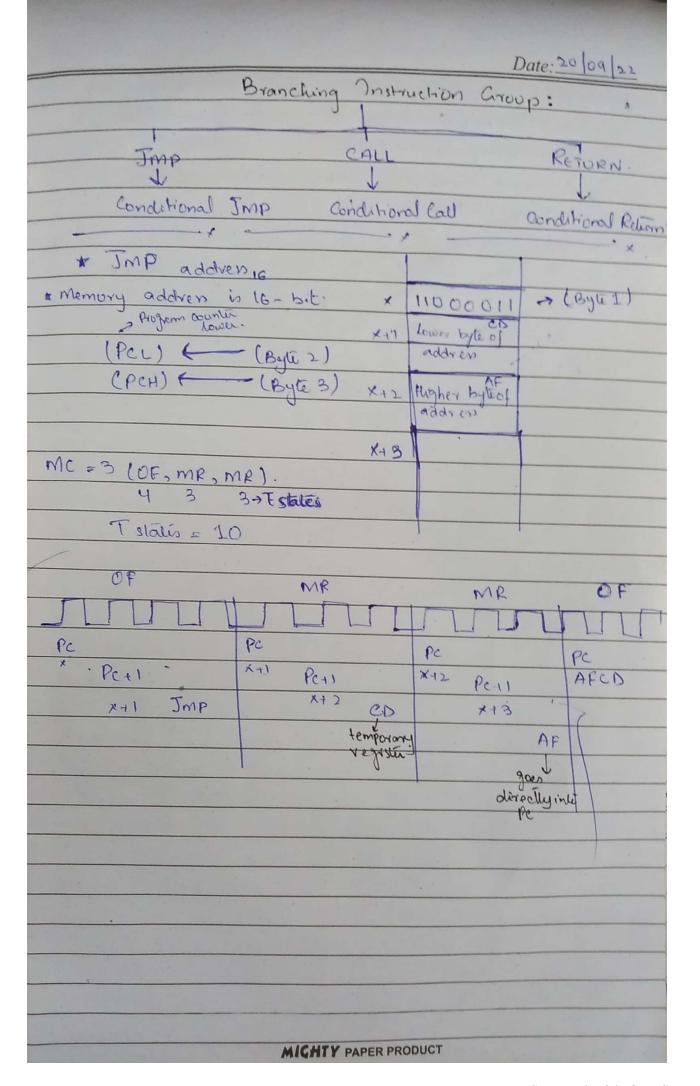
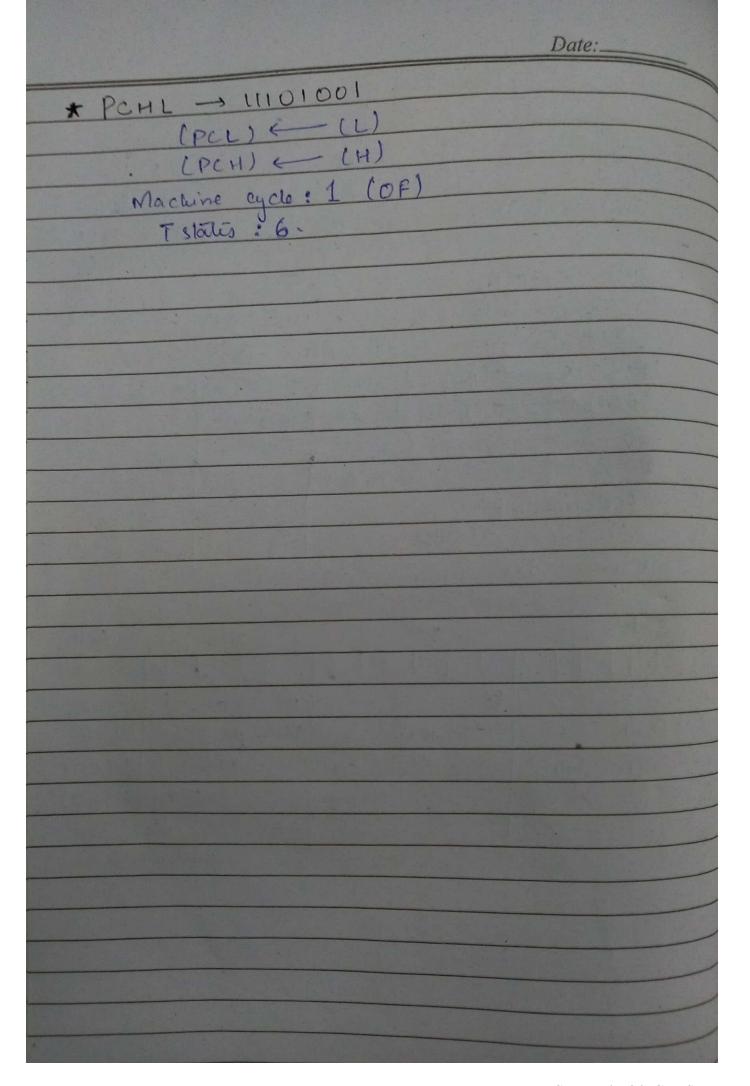
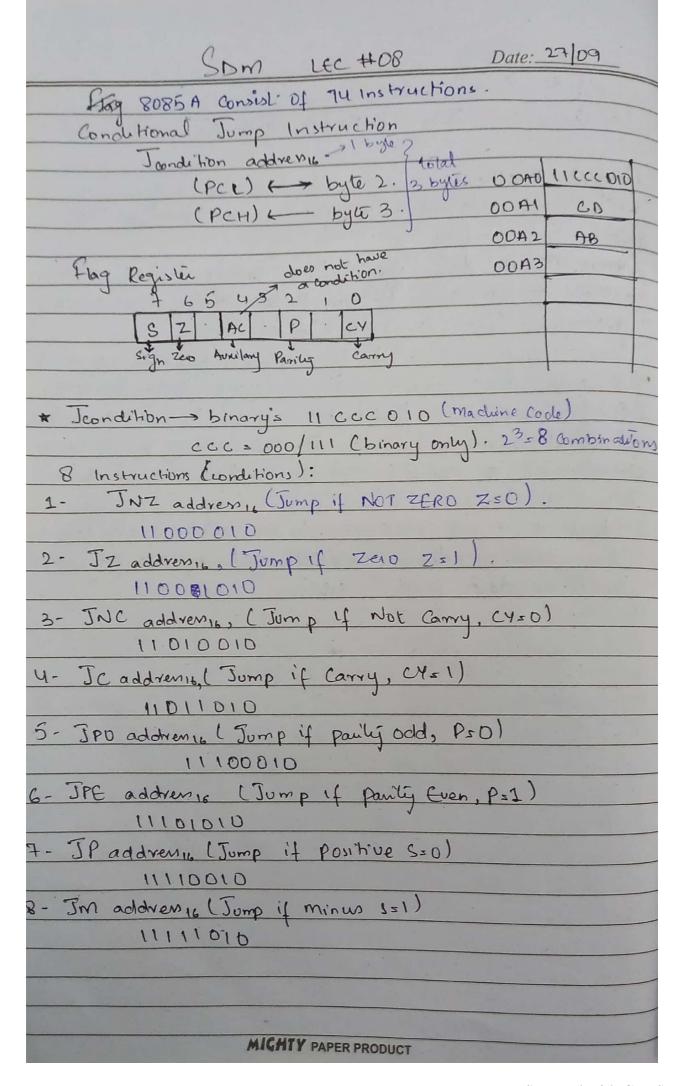
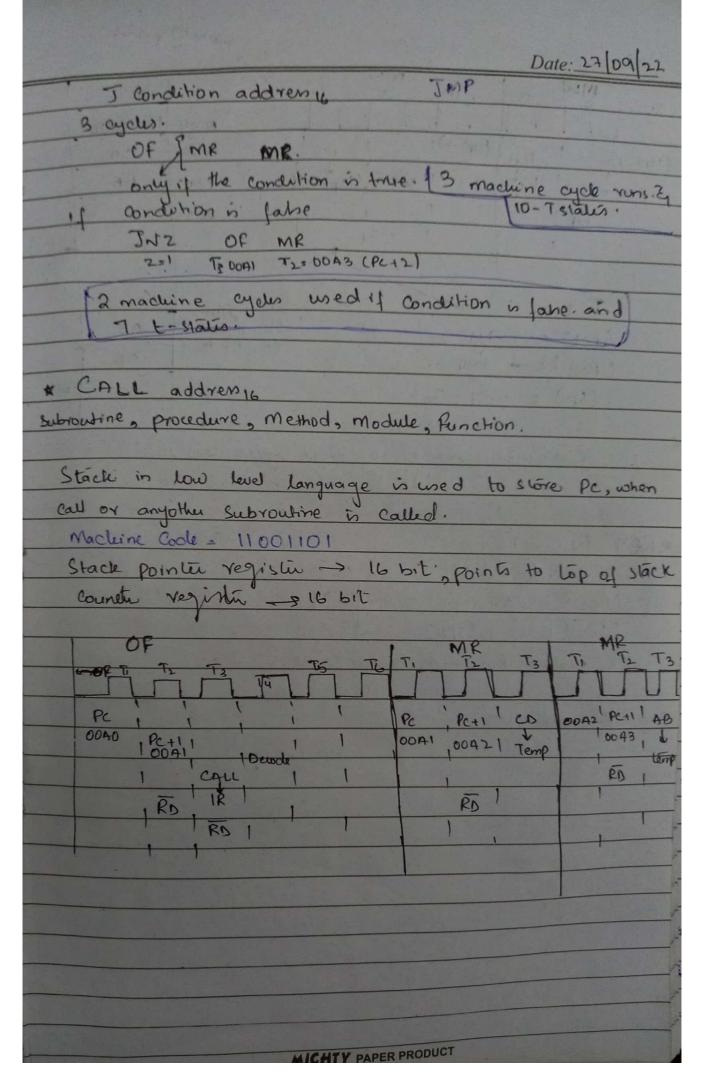
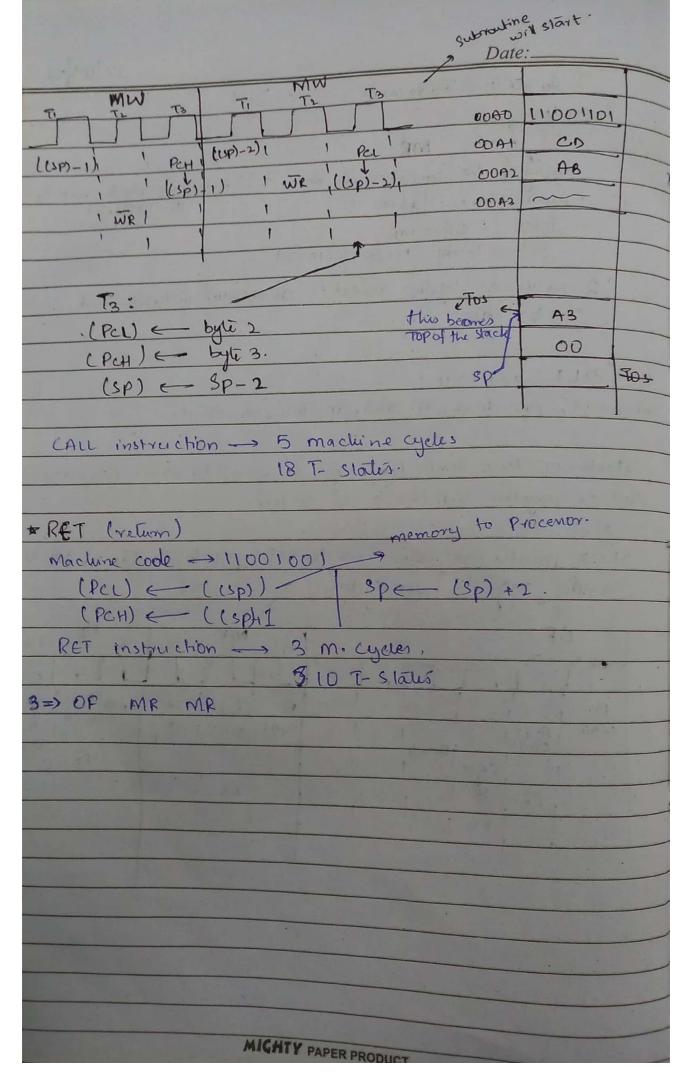
Som Lecture 400
Som Leenure 407. Date: 20/09/22 2 byte OUT address (A) 2866 (address).
IN 110 110 11 -> 0 Peode.
* Instruction Cycle:
Cirroups of instruction set: D Data transfer Instruction: It consists of instructions that allow the data
Elogical Instruction Croups: These instructions perform logical operations such as AND, OR, Ex-OR, Complement
Branching Instruction Croup: There instruction causes a Change in the sequence of execution of instructions. This includes conditional & un conditional jump instruction, subroutine call & relieves
1) Stack & machine Control group: These instruction relate with stack & internal control
Blags. Barithmetic Instruction Croup: APD, SUB, increment, Decrement of data in the register of the system can be performed by the instructions of this group
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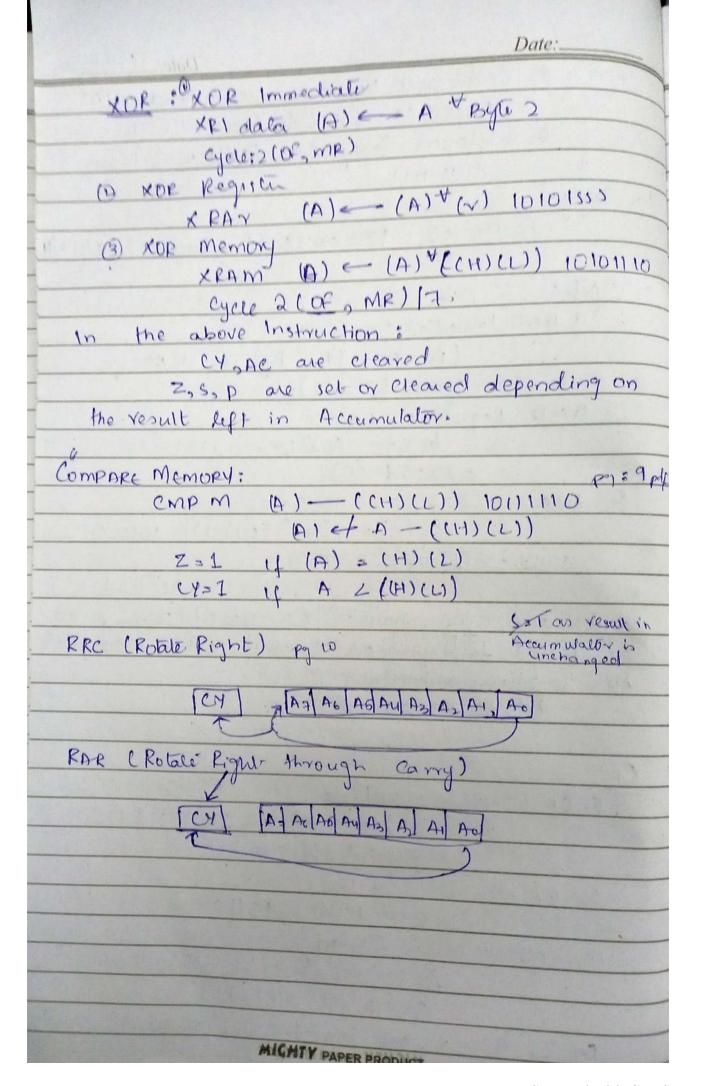


SDM - LE	r ## 6)01	Da	te: 11 10	12022
TRANSFER OF CONTROLL					
11000011					
110000	116	Hocen	0~	Mer	pory
* Imp address (PCI) = Bytes	The state of the s	100013		- Indian	nory.
(PCH) = Byli 3	lR		ABCD	11 00110 1	
11(ccd010 Jearditton address	PC NE	BCD	SECE	LO AB	
	SP PO	00	ABCE	HO CD	
	WZ		ABDO		
* Call address 5/18			2		
11 CCC 100 grace Condution (15p	1-11 -	- PCH			
2-15 (Lsp)-:	2) = (p	c1) 1	CADB:		subrolifin
(PCH)) - By	ste 2	CADB		
(PCH)	e By	rte 3			-
(Sp)	- 15	P1-2			
* RET 3/10			- 17	1	
11 CCCOOOR condition CPC) + (sp	.)			stack
CIC	H) = [[sp)+1)[£000-		
1219 -> T. Stalis (S)	2) -	(Sp)+	2		
GRIDA				C	
- MACRO -> Pastis the codes, prog	ram get	lengthy			
- SMP- need different addre	mes for	Jump.	1	(ccc)	
-CALL -> Transfers the control o	f Prog	am.		000	3
		3.00		001	
				010	10.12/17
				011	
				100	
		*		101	
		4,	P	110	
			M	1111	ANTAGE !
				11)	
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D	Date: 11 (10)22
Load H & Direct (LHLD) Address) (L) (Cbyte 3) (byte 2)),	- 41 Ac 1 - 12 11
(16 (Cbyte 3) (byte 2))	(H) = (Cbyte 3 X bytes)
- Store H & L Direct (SHLD address)	
Abut al Abutal ()	
(Chyte 3 1 (byte 2)+1) (- (H) 001	00010.
Effective Address (EA): Adomony whom Archobnes	o. Addrew that
Pointain daler	1
(ns)	
@ Registro Indirect Addressing Mode:	
- Address Contained in instruction specifies	en Cala
registin (registin pair) that contains a olddre (Effective Address). Instead of dates on a	
addren itself in instruction.	
	The state of the s
- in Microcompulie Registie indirect (point	in or implied)
addressing the register pair that contain	the actual
address of the operand in an intunal v	
	and Haran
instruction. I thus a particular internal a pointer register for a particular instru	vied by the
instruction. I thus a particular internal of	registin b
a pointu registu for a particular instru	iction.).
20050	1 1
on many 8085 A register indirect ac	darening instruct
from the Hzyl registin pair is used a	o pointue
Mov from Memory. modicitus.	& DDD = Destination
16/62 MON 9, M (8) ((H)(L))	2 000
01 000 110	
	001
Mov A, M.	€ 011
OF, mr	H 100
7-TSTALEMIGHTY PAPER PRODUCT	L 101

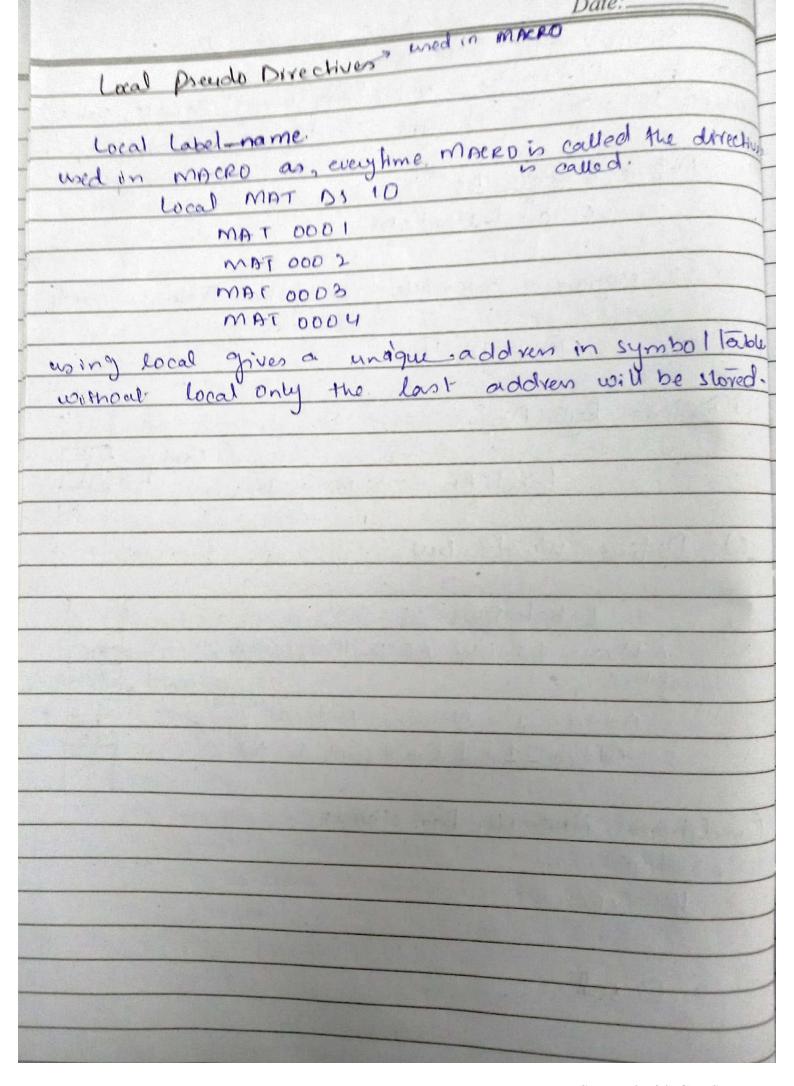
	, vo ⁶ .
and with	Date:dort use.
Mov to Memory	MARINE PARTIES
MOV MOS.	III A
(1H) (L) = 9. 0	1110 \$55
	RP
Load Accumulator Indirect	100 80
LDA X AP	30 101
(A) (Cop)	CORPIOIO , 10 HL
	"II SP
Store Accumulator Indirect	d notabled and was
98 XATS GOXAGE	
(Sp) ← (A)	
BEST 1921 (1) 11 12 12 12 12 13 14 15 14 16 14 14 14 14 14 14 14 14 14 14 14 14 14	
	Theory Bound , by Mar.
CA CLARENCE SERVICE SE	
	As Francisco Control of the Control
Control of the second	
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Date: 18 10 22
NOT: 10 Complement Accumulator: CMA (A) (A)
00101111 , 1 (OF)/4-Tstates , Hag: none.
© Complement Carry: CMC (CY) = (CY) grag: CY
0011 1111
Set Carry:
Set Carry: (CY) <- 1 STC 00110111 flag: CY 1(0F) /4
AND:
OAND Immediale: ANI dala
(A) (A) Byte 2 11100110
Cycle: 2 (OF, MR).
(3 AND Registin: ANAY
(A) (A) (Y) 10100535
cycle: 11 OF)
(3) AND memory: ANAM.
(A) < (A) (CH) (L) 10100110
Cycle: 2(DF, MR)/7-T state.
11 Ae is set
In the above Instructions: CY is cleared ? Z 35 p are.
set or cleared displaying on the vesult left in Accumulator.
in the orthogen instruction:
Birth At more chearped.
OR .
OR immobile: ORIdala
(A) ← A Byte 2 11110110
(A) (A) A Byte 2 11110110 Cycles 2 (OB, MR).
(2) OR Register "OR AY
$(A) \leftarrow (A)^{\vee}(\gamma) (0110333)$
(B) CRM amory: ORAM (A) (A) ((H)(L)) 10110110
(A) (A) ((H) (L)) 10 11 U11 0
cycle: 2(OF, me) /7.
CY 3 AC is moto Cleaned - Z , S, P are set or cleaned -
depending to the Von MICHTY PAPER PRODUCT



11
PROGRAM ASSEMBLY & Date: 25/10/2020 TESTING
Ter Tim Ca
161100
Anemble: 1- Microprocenor Instruction, sole 2- Anemble Directives Bendo Instruction
1- Microprocessor Instruction Januarion
1- Microprocenor Instruction 2- Amemble Directives Bendo Instruction
3. Comments.
" all instructions slaiting with dot are Amemble
Divectives.
Diffections
Relds in Amembly Language:
1) Label (optional) label_name:
21 Operation Coole
3) Operand field
4) Commenta (optional)
1 label - name: opcode espaces, operand 1, operand 2,
operand n; Comments
Asserbbler Directives
1) The Origin: ORG Lexpression > 16
ORCI 1000
STA ABCD 1000 activity machine code comes
AB here
24 END
A SET 100 Symbol name has a colon symbol name
Symbol name (label name has a colon, symbol name doesn't have a colon)
doesn't have a Colon)
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Date:	
Symbol-name Eau 10 un amigned	
Symbol-name Eau 10 We cannot change wake out using Equale, vo	sue
using SET can be change.	
4) Define Slorage: Ds	
optional-label: Ds	
when a program is amembeled a symbol table is m	rade
Temp: Ds 4	e said
A. M. W. C. C. Market C.	
5) Define Byte: DB	1
Label +2	6
Label: DB 6, 12, 18, 24, 48,	8
	18
6) Define Word: DW	
Label: DW1 list	-
Addren-1: DW ABCD, 101F, 00AB	
Symbol table	3
Address_1 = Memory Address (ABCB)	2
Address_1 = memory Address (ABED) Address_1 + 1 (will point to 1816) Address_1 + 1 (will point to 1816)	=
Conditional Anemble Directives:	
compile time:	
If expression	
ENDIF	
LIV HALL IN THE STATE OF THE ST	
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Som	.#12	Date: 1 1	1/20
Two Pan Ame	mbler:	ngi mateur	
L.C. Clocation Cour	ntu) Opa	pde Table	
16 615	Mnemonics	Madeine Code	Descript
29 mbol (label Merrory Addres			
START 1000H		3	d
Temp 1 1004	LDA		3.
Symbol Table	Mov 1,212		
111067 (1006)			
JMP addrew CALL JMP Symbol Label	and Comments	RO	m
Location Counting is also rebut the problem is the	net to zero,	Me	nove
address.	red to give it a	different	,-
ORC - updates Location	n Country		
ORG 1000 H			
START: LOS ABOD			
as instruction is by 3 bytes		c will be u	pdated
100	003		
MIGHT	IV PAPER PRODUCT		

