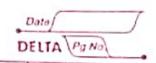
		. 1 = .	
	dab Name:	ECE 3004 Mic	noprocuse and Microcontroller
	7 1 1		0-12
	Exht No:	(a)	
		. 7 - 7	The state of the s
	Date:	17-11-2023	
	ACM: Add	lition of two 32 bid	Numbers
	Sample Injut:	AX = 706015231	d au
			BH
_	Sample Output: (7200H = 14712	365 53H.
_		1.0	
_		Tart of	Registorationno: 218cF10381
_		1 -7	Eull signature: Akahay
_			Choudhory
_	. 54	1.	
_	Memory docation	Hex lodes	Monemonics.
	0000H	75 46 23	Mov 40H, #23
	BAR AN		etwine in Alexander
_	0003H	75 4115	MOV 414,#15
_	0006H	75 42 60	MOV 42H, #60
	рооди	75 43 70	MOV 43H,#70
	ОООСН	75 50 30	Mov 50H,#30
	ooofH	75 51 40	MOV 514,#40
	0012H	75 52 63	MOV 52H, # 63
	0015 H	75 53 77	Mov 534, #77
	0018 H	75 53 77 F5 40	MOV RO, HYOH
	оојан	f5 60	MOV RI, # boH
	DOICH	F5 04	Mov R2, # 04H
	DOIEH		SET B R50
	0020H	D2 98	MOV RI, # BOH.
		F5 50	CLR RSO
	00224	C2 98	
_	DOZYH	C2 97	CLRC

•			
	0026H E540	MOVA @ RO	
	0018H D298	SETB R50	_
	002AH 35.50	INTERADDICA, @RI	_
	002CH 05,50	INCR	4.
	00584 (248	CLRRSO	_
	0030H F560	MOV@ RIA	-
	0032H 0540	INCRO	_
	0034H 0560	INCR	
	0036H DS04	DJNZ RZ, REPEAT	
	00384 5006	INC EXIT	,
	003AH 0560	INC@RI	
	003KH 00	EXIT! NOP	
	003DH 80FE	S JMP\$	
	003 FH 20 FE	END.	
2.0451.204	ООЗЕН	Routen	
2184610391		A CONTRACTOR OF THE PARTY OF TH	
BKTHBA			
CHAUDHARY	(ode:	, • , ·	
	Mov AX, Eirst_number		
	Mov Dx, Second-number		
	Andre Andre Andre		
	ADD AX, BX.		
	ADD DX,CX		_
		•	
			_
		7.1.1	
	7.00	21 - 1	



			DELTA Paro
11	Lab Name:	ECE 3004 Murch	ocusor and Microcontroller.
- 18	Ecpt No:	1(0)	and rucrocontroller.
	Date:	17-12-2023.	
	! MIA	Multiply (-09H)	with (+02 H)
	Soemple Input:	A = -09H , B = +0	02 H
	sample authort:	07200H = -18	
BLE			Registeration No-21 BCE10281
			Eull signatur: Akahay
		track to the state of	(hand)
	Memory docation	Hexlode	Mnemories.
	0000 H	75 Fo 40	MOVRO, HROUGH
-5	0003H	£500	MOVA, @ RO
-8	000BH	08	INC Ro
- 11	0006H	£500	MOV B, Q Ro
- 24	000.8 H	AY	MUL AB
	HP000	68	INC Ro
1	000 AH	FSOO	MOV @ Ro, A
	000CH	08	INCRO
	000 PH	F500	Mov@Ro,B
- 2	000 FH		END.
1		•	
	lode:		
	MOVAL - 0	9 H) = (/2 - 2
	MO V BL, DZ I		
	I MUL BL		
E			
toda Anti-			
10		A	
/tt		1	27
) is			and the same of th
			1721

Lab Name: ECE 300	4 Miroparo-assor and
Mucr	ocontroller
Expt No 1 (d)	
Date 17-12-2	٥٤3,
Aim Divide 003	34 H with 07 H
	1, B =07H
Sample authut a=07,6:	
	Registration No: 21 BC E 10381
	Eul Signature - Akshay
	chaudhary.
Murnory Hextod	le Mnemonics
hocation	- I Walles
0600H 7434	MOVA, Attaye
2002H 75F007	MOVB # OTH
0005H 84	DIVAB
0006H	END
2 -2 - 2	
(ode	
MOV AX, 0034H	
MOV BH, OTH	
IDIN BH BH.	A FEET
	- 1 pm
	* 11



-	Lab Name:	ECE	3004 Microprocessor and Microcontroll
	Expt No	2	and rundownoll
	Oate	17-1	2-1023
	Aim		
		an	uy Sortung: arrange 5 data bytes in cending order.
	Sample Input.	010	004,002,001,006
	Sample author	001	002,004,006,010
7			7 001,000,010
			Registration No: 21BC E10381
			Eull Signature: AKSHAY
	- 1		
			. CH AUD H ARY
	Memory Location	Hercode.	Mremonies.
	0000H.	75 F4 64	Movey # AU
	00034	75 f3 o 4	MOVRY, # OUH
	000 PH	75 Fo 30	MOV RO, #30H
	нРооо	E500	MoVA, @Ro
	000 BH	FSFO	Mov A, B.
_	000 DH	08	INCRO
_	000 EH	E500	
_	COLDH	Bf oo.	CINE A, B
_	00124		JNC SKIR
	0012 H	FSOO	Mov QR. B.
	0014H	18	INC Ro
_	0015H	F500	DINZRY, APRIN A WAIN.
_	0017H	08	STOP : SJMPSTOP
_	00 18 H	DEFY	GAND . INCRO.
	HA100	80FE	
	001CH		AND OFFI



		DELTA (Fg No.)
dab Name:	ELE 3004 Nuroh	rouses and
	Hicror	ontroller.
Expt No:	Ч	
Date:	17-12-23	
Aim:	Block data to	ransfer [a block of
		-
Sample input:	019,0C,17,2	0,41,40,59,20,41,28,16,29
Sampa autput:		11,40,59,40,41,28,1629.
	Ru	gistration No: 21BC E1038
	E ,	ul Signature: BRSHAV
		CHAUDHARY.
	. Pr	, 16. ₁₀ ,
	-7	4.5
Methory docation	Hexcode -	Moumonies.
0000H	75 fo 30	MON Ro, #304
0003H	75 F, 40	MOV PI;#YOH
0006H	75 Fz 10	MOV R2, # 10H
HPOOO	ESOO	MOVA, @ RO
000 BH	FS01	
000 DH	08	INCRO INCRO
000 £H	Po	INCRI
000 FH	DEF2	DINZ RZ, REPEAL.
Code:		· · · · · · · · · · · · · · · · · · ·
MAINPRO C.		H2192
MOVAX,	O DATA	E. 14. 12.
(3.0)		•E to the second
,		n E de
- 11		,
		Je. Je.
CLD		1945
REPMAN	st.	
	Expt No: Date: Aim: Sample Input: Sample Departion OOOOH OOOH OOOH	Methory docation Oooh Oooh

MOV AH, MC4

8051 Merocontroller.

DELTA Pg No

Late Name	which noted as an al
	Microcontroller
Expt. No.:	5
Date:	17-12-23
Aim:	Delay calculation
	Delay calculation and generation of S mane at Port P1.0 with IKH, F.
	188. 1.0 with IKH, F.
	Ober Realistration No. 21966 1-21
	Eull Signature
Lode:-	
at?	ort: Set P1.0
14	LL LCALL DELAY
	CLR PI.O
	LCALL DELAY
	S JMP START.
	AY: MOVR3, # FJH
اجا	DUNUR3, Li
	RET
END :	
	A Company of the Comp



	DEELY (Shot				
PP	Lab Name: ECE 3004 MPMC				
-	EXPT No: 06				
	DATE: 17-12-2023				
	Aim: Assume two for LED connected to P1.0 P1.1.				
	Write a program to blink two LED with a d				
	0.5 ms				
-	Reg. No:21BC E103 81				
	Full Signature: AKSHAY CHOUDHERY				
	lode: 000				
	org Oxop.				
	MAIN: MOVP, HEXOL				
	CALL DELAY				
	MOVP # OXOO				
	CALL DELAY				
	Mov P, # Oxoz				
	CALL DELAY				
	Mov P., # Oxoo				
	CALLDELAY				
No.	SINE WHIN				
	DELAY				
	MOVR2 HOXON				
	Quter loop:				
	Mov Ri, Ho; PF				
_	and the state of t				
_	INNER LOOP:				
_	NoP				
	DINT P, INNER LOOP				
_	DINT RL, OUTER_LOOP				
	RET				
	END				

DELTA Pg No

	- uning	ralculation and generation for asym
	- Juan at	talculation and generation for square Port 1.0 with KH, Eusing Limer.
	1	Krd No : 518(E1038)
Ł,	14	Reg No: 21BC E 10381 Eule Signature: Akshay Choudhary
(ode:		
org: 0x00		- 1
MOV THOL	#01h	
MOV TNO	# 6 X 3 C	
MOV TLO	# o x B o	1 0-1-
SET TRO		* * * *
		the second of the second
MAIN:	*	Alexander of the second
JNB T	FO, MAIN	3, 11 22, 1
CLP	P, 0	at the state of th
CLR	T.Fo	
SZMP	MAIN	
END:		A Lymp In -
		product to the second second



		Detra Comp
Qz	LABNAME	ELEBOOH MPML
	Las No:	08
	Date:	17-12-2023
	Aim:	Interfacing LCD Outlay
		Reg No: 21BCE10381
		Eull Signatur : ARSHAY CHOUDHARY
	Theoxy:	
		cally involves sending commands and data
	through the	(1/0 ports to control the disposity
	σ	
	Assembly Code:	
	•	
	DR4:0x00	
	MOU DPTR, # LCE)_int
	CALL LCD - Comme	
	MOU DATE, 1	
	CALLLED - MESSAG	e
	MLT Halt the	
		Dinitialization routine.
	MOV A, # 0,38	-
	CALL LED Lomm	
	MOVA, HOXOE;	Q
	CALL LCD . lomma	nd Delay.
	MOVA, # 0x06'	0
_	CALLLED_Lommo	md-Delay
4	MOVA, HOXOL;	•
	CALL LCD-Comme	nd-Delay
4	RET	V
U.F.		

Rug No : 21B(FLO381 Eul Signature: AKSHAY LCD- Command - Duplay; LHOUDHARY MOV R2, # 50 Delay _ CI: DUNZ Rz, Delay-CI RET. LCD - Massage .; A MOV Ro, HO; Missage_ LOOP: MOVA, MELLOGE [RO]; INCRO; 12 Message-END; (ALL L(D-Delay; LALL LCD - Data; JMP Message_LOOP; Message - End: _RET. LCD-lommand: MOV P, A; CLRRS; RS = 0 for command DA. CLR RW; CLR RW; SET EN; LLR EN; RET:

OUTPUT: > DB"Hello LCD!" O. Null terminated string

99	LALNAME :	ELE 3004 MPMC
	Lab No:	٥٩
	Date 1	17-12-2023
	Aim:	Interfacing with Keypad
		Rey No: 21BCE10381
		FULL signature: ANSHAY (HOUDHARY
	Theory: WI	18051 we read the key preses from the keypa
	, the	d perform action based on pressed keys.
	7 1 2 1	
	(ode:	
	080-0K00	
	20. 340A	H Keyhod_Imit
	CALL Keyhad	- Command.
	·MOUDPTR	· Lance
	MAIN-LO	00P:
	CALL Re	ad_keyhad
		N_100P;
	MOV A, P3	<u>)</u>
	CALL Dis	hlog reg.
		0 0
	THEMAIL	N_Loop;
	HLT;	
	Keyhad- Ini	F: :
	MOV P2)# 6	
	RET	*/

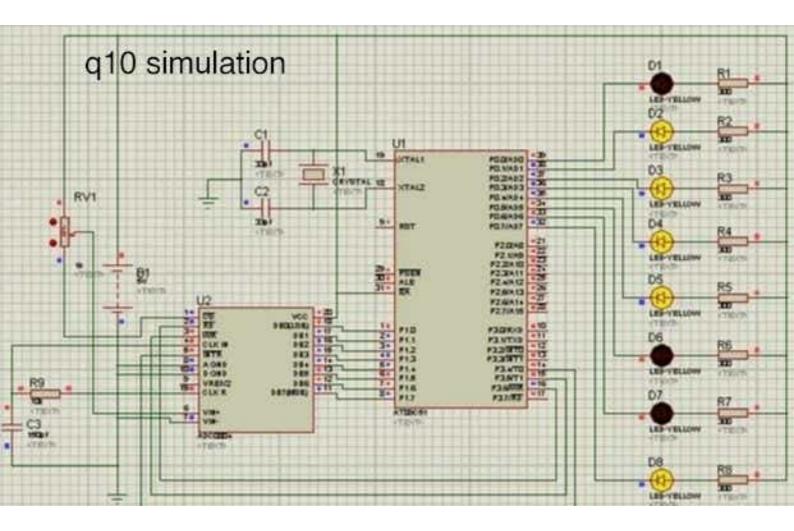
		Det.iii.
	Read-Kuyhad:;	
р	MOV A, HOXEF;	14
	Mau Pi + DxOF;	
	NoP;	
	P	F
	MOVA, Pz;	
	CPL A;	
	have a:	
	MOVE HO CO.	
	MOVP2, # 0, Fo;	
	NoP.	
		A STATE OF THE STA
	Mov A, R2;	
	ORL ARI;	+ top -
	RET	
	A.11	
		· (2 t ×)
	Mov P. A;	
	CALL Delay	
	CLR P1;	7 1 11 1
	RET	ter terminal
	Delay:	9711° . 7
	MOV R2, # 50	T 3 & _ = 1
	Delay_Loop:	
	DINZR2, Delay-Loop	
	RET.	E A Section 1
-86	DR4 0x30	**
1	Main Loop:	
12	JMP MainLoop	15-17
		R
		19
7115		

0	LabNAME :	ELEBOOKMPML			
	Lab No:	10			
	Date	17-12-2023			
_	A im:	Brogramming ADL.			
		Rug No: 21B C E 10381			
	Full signature: AKSHAY CHOUDHARY				
	Theory:- It in and generation	notes concursion of ranalog signals being to			
	Lode:	5 5 71 E			
	0R4 0x00				
	MOV DPTR , #	ADC - hat			
	BOCALL ADC-lomus				
	MAIN - LOOP:	+0 F			
	CALLADE - Rea	d;			
	CALL DAC - Read;				
	JMP MAIN-LOO	ρ;			
	MLT;				
	ADC_Ind;	7.1			
	MOV P / # OxF	F F			
	UEI.				
	14				
	ADL-Read;				
	MOVP, HO, FF	F)			
	स ्टिय				
	reted				



		DELIA CYNOL
	Mou P. , A;	
-	RET	
	DAC_write:	
	MOV Po, A;	
	CALL Delay;	
	RET.	
	8.1.	
	Delay:	
	MOV K2, # 50	
		J. Cape
	Dolay - Loop:	The Action of the Control of the Con
	DJNZ Rz, Delay Loop	
	RET	17 F
	87-9 80 6	
	ORG Ox30.	
P		
ā		
10		men I, i f k
78 78		
100		
THE		
OT.		

911	LABNAME ! SPECE > 04 MPMC			
	Lab No 1			
	Date : 17-12-2003			
	Aim: Interfering with stepper motor.			
	Reg No: 21BCE10381 Full Signature: AKSHAY CHOUDHARY			
	(ode:			
	ORHOLOO			
	MOUDPER, # estepher_ Init			
	CALLStehher_Lommand			
	MAIN_LOOP:			
	MOV A, # 0x01;			
	CALL SLAPPON-MOVE			
	CALL Delay.			
	MOVA, #10,02;			
	(ALL Stepper-MOVE			
	CALL Delay.			
	MOVA, # 0x03;			
	CALLStepher_NOVE			
	CALL Delay.			
	MON HI # OXON;			
	LALL Steffor MOVE			
_	CALL Delay			
	JHP MAIN_ LOOP!			
	U			



	Cartina I. I.
	Steffer - Init:
	MOV P, HOXOO;
	Mov P2, #0x00;
	Clair Andrew
_	Stepper-Move:
	Mov P2, A;
	CALL Delog ;
_	RET
_	. N. V
_	· Delay:
_	Move, #50
-	
_	Delay - Loop:
_	DJNZ Rz ; Delay Loop.
_	RET.
_	0860x30.
_	
_	
_	

