

COC2070

ASSIGNMENT 4

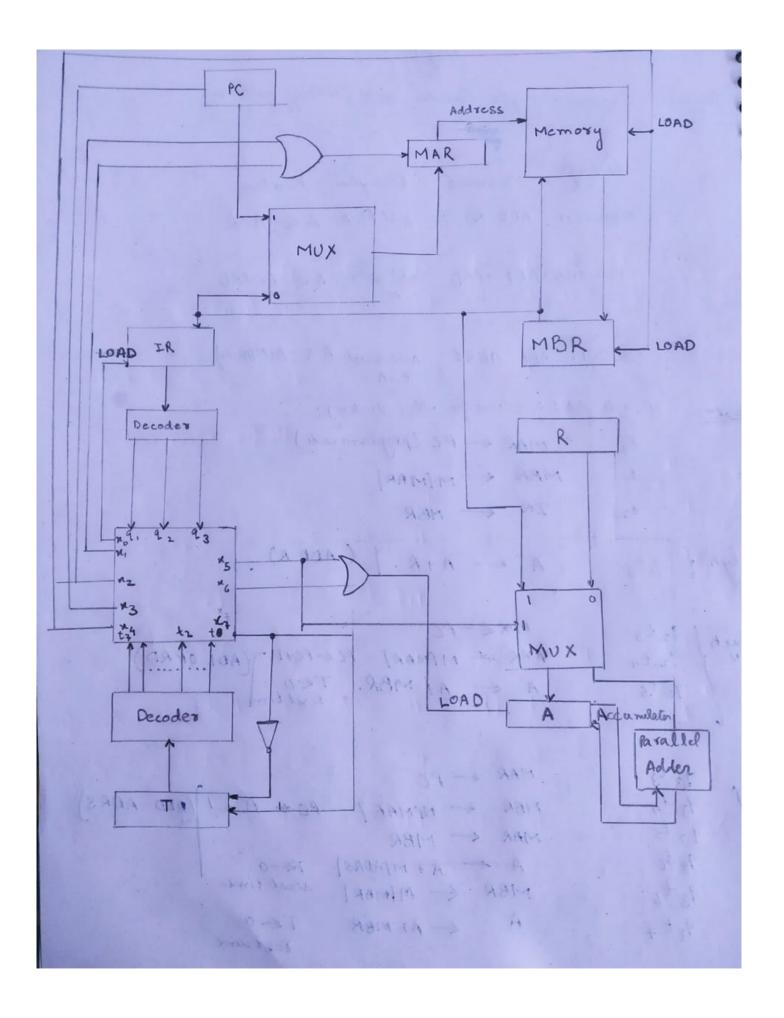
NAME:- MOHD. ZAID ALI FACULTY NO:- 19COB103 ENROLL. NO:- GL3125

3	Assignment 4.													
3	Design a suple Caputer une fallary instruction.													
0	3 Oustan! Design of The													
9														
9		o pialion Cade	Mnemone	Description	Furelion									
3		00000001	ADO R	Add Rto A	ACAHR									
2														
S		00000010	ADI OPRD	Add open to	A < A+OPRD									
S				A										
9	,				A - A+M[ADR]									
0		00000011	ADA ADRS	to A										
0 7	3 and le Part : (game for all instuction):													
	Dr (program code)													
1	t, MBR \(M[MAR]													
0	=0													
0														
-	39, Myh { 2, ±3 A - A+R.] (ADD R).													
	3 // /				1									
	a high !	92 = 3	MARE- PC	2 1 P.	16 PC+1 DIAM	1 APRD)								
1	3 high \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \													
1	92 ts A A A MBR. TEO Yeset tim.													
	→													
	92 to MAR - PC													
	93 ty MAR - PC MAR - PC MEMAR 7 PC - PC+ 1 (ADD ADRS)													
	13 5 MAR - MBR													
	93to AFMIMARI reset times.													
		93 t 7	A 4	- A+ MBR	TEO Yourd Win									
4	9				Yeset clim									

x1 = to+ 92t3+93t3 1 N2 = 93 t4 000 100 MAR + MBR x3= +1+93+4+93+4 110 0PC ← PC+1 N4 = 93t4 + 92t4 Mg= 9ats +93t7 x = 9, t3 2000 kg + be 110 000 T4010 18 = t2 010 100 001 IR€ MBR

NO 000 0 010 111 000 010 1

MAR LPC MBRL- MTMART OIL MBREA+ MBR A CA+ RITH



Oa. Find the control wade for ithe fallowing microoperates and specify the fuction beign carried land.										
and faction,	27.56									
Microperation	A	В	D	F	(H	Function			
i) R2 = c/c (R2+R4+1)	100	100	010	010	1	110	and circulate whole			
$ii) - R_3 + R_5 = R_5 - R_3$	101	011	000	010	1	000	Sulvant R3 from			
iii) Output = Shr (R7-R2-1) shr=[R7-(R2+1)]	MI MI	010	000	010	0	001	Shift right after Sub. (Rzti) fram R7			
IV) R, - Input A9	000	000	001	000	Q	000	Set Transfer Expert			
V) R3 = R4+1	100	600	011	000	0	000	Transfer 2's appende			
$R_6 \leftarrow R_2 - R_1 + 1_{1/2}$	010	001	410	010	V	010	Subtraction with Borrow			
VII) R = (R2+1) - R22	000	000	101	000	0	011	set Roto zero			
vm) R3-R2, C+1	010	000	011	on	1	000	Set R3 to R2 with Carry 1			
1×) R1 < I.put-R4-1	000	100	001	010	0	000	Subtract (R4+1) from Input tay Barran			
X) R7 < R6 + Input	010	000	11.1	010	0	000	Add 1's complimet and input 1 transport to R7			
							- 0			