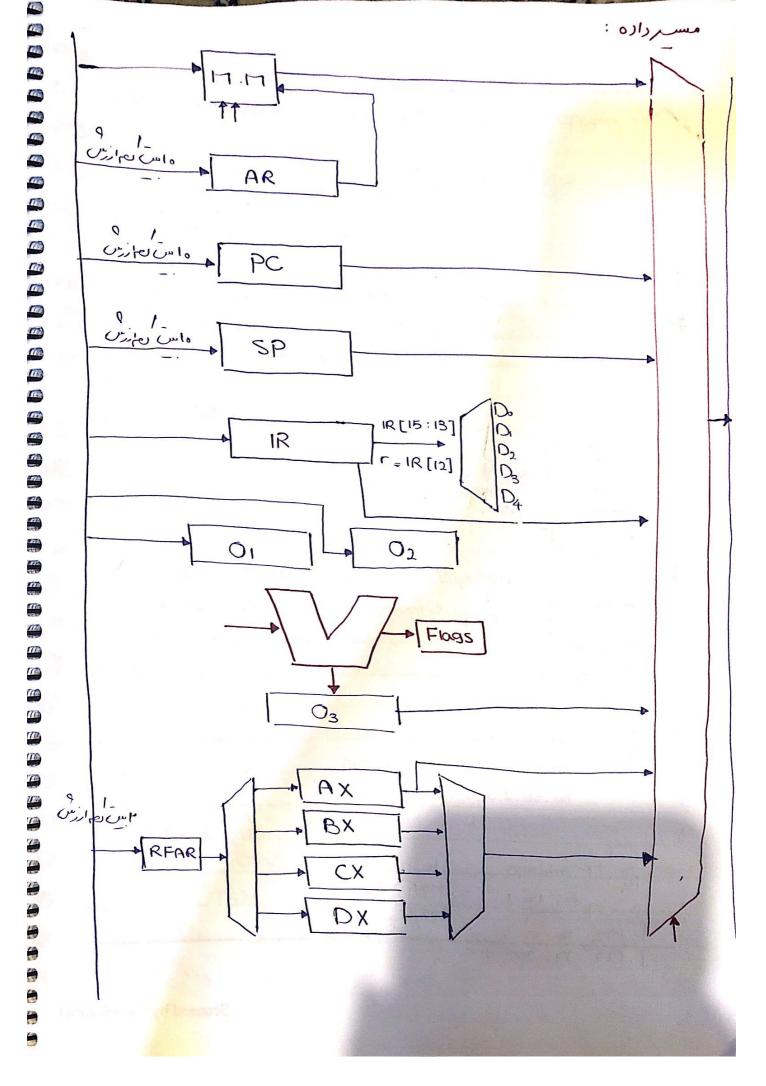
المعنى دوم والمعلى الماسلاد المعنى الماسلاد المعنى الماسلاد المعنى المواجعة المعنى المواجعة المعنى الماسلاد الماسل



Instruction Fetch:

To : AR -PC

Ti: IR - M[AR], PC - PC+1

Instruction Decode:

T2: Decade IR [15:13] into Do, D1, D2, D3, D4, , r=1R[12]

Mov:

T3.00: AX - 18[7:0], SC+0

ADD IMMEDIATE:

T3. DI.T': OI -AX

T4. Q. r': O2 ← IR[7:0]

T5 . D1. 1: 03 - 01+02

T6. D1. r': AX ← 03, SC ← 0

ADD From Memory:

T3. D. r: AR - IR [9:0]

TA. D. r: O2 - M[AR]

T5. Di.r: Oi - AX

T6. D1. r: 03 - 01+02

T7. 17. 1: AX -03, 50-0

SUB:

T3. D2: RFAR ← IR[1:0]

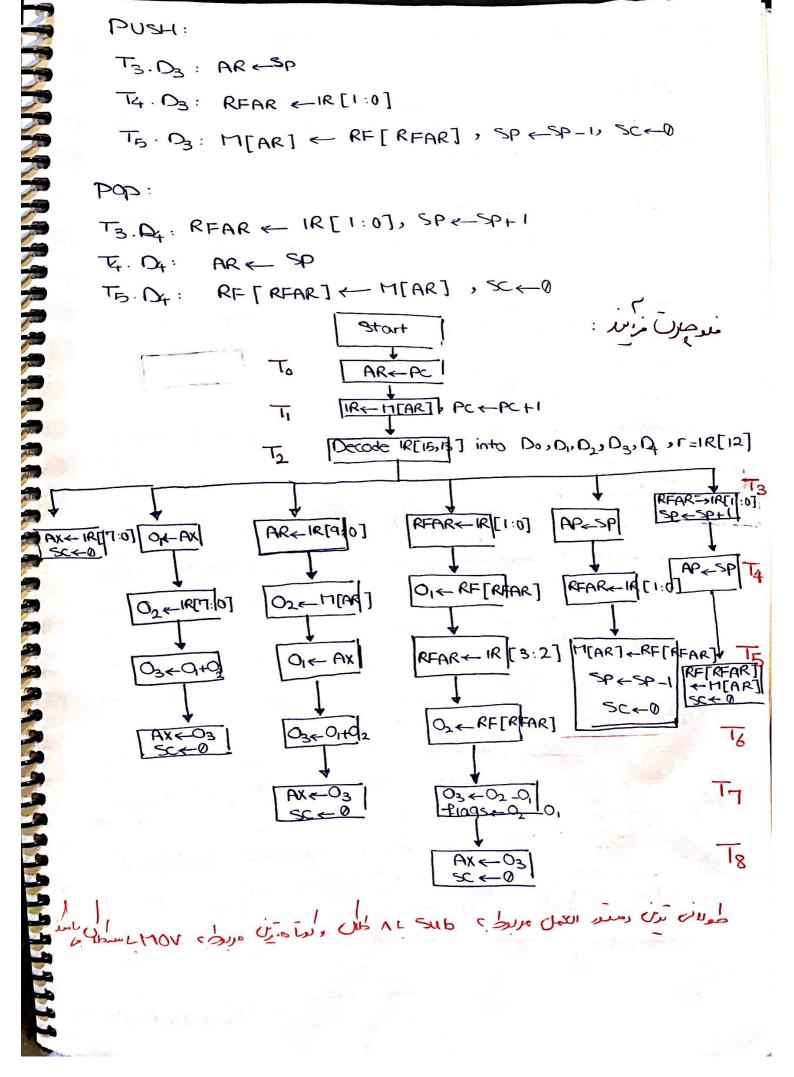
T4. D2: O1 - RF[RFAR]

Ts. D2: RFAR - 1R[3:2]

T6. D2 : 02 - RF[RFAR]

T7. D2: 03 -02 -01, Flags -02-01,

T8. D2: AX ←O3, SC←0



0

		Go rem c
registeri	X7 X6 X5 X4 X3 X2 X1 X0	525,50
MAIN Memory	0 0 0 0 0 0 0 1	0 0 0
PC	0 0 0 0 0 0 0	0 0 1
SP	0 0 0 0 0 0 0	
O ₃	0 0 0 0 1 0 0 0	0 1 1
IR.	0 0 0 1 0 0 0 0	1 0 0
AX	0 0 1 0 0 0 0 0	10
REG	0 1000000	, (
X0 X1 X2 X3 X4 X5 X6	DDER - So - So - So	
X7	+ T4 . D1 . r + T5 . D4	

$$X_1 = T_0$$

 $X_2 = T_3 \cdot D_5 + T_4 \cdot D_4$
 $X_3 = T_6 \cdot D_1 \cdot r' + T_7 \cdot D_1 \cdot r + T_8 \cdot D_2$
 $X_4 = T_3 \cdot D_0$
 $X_5 = T_3 \cdot D_1 \cdot r' + T_5 \cdot D_1 \cdot r$
 $X_6 = T_4 \cdot D_2 + T_6 \cdot D_2 + T_5 \cdot D_3$