Assembly Frogramming Instruction Set J. Dota Transfer Working Instruction with example "Mores data from one location to (1) MOV another. stone Immediate. Mones data directly into a location. osh Data O MVI Load Pais Immediate. Loads address immediately in register 2000 h 3) LXI & Load Accumulator. Go to the 3000 h @ LDA mentioned location in RAM and load the contents of that location in accumulator. Store Accumulator. Sauce 3000h (5) STA the contents of accumulator in the mentioned location in RAM Lood Accumulator from pair 1 LDAY Load Accumulator cuitle data in the address sawed in the register passe. Store Accumulator into pow. Store - F STAX B the contents of Accumulator in the memory address sawed in the register pair.

I	. Arith	metic	
		В	AC = AC+B (Dfrect)
	ADI	05h	AC & AC+ osh (Immediate)
3 .	ADD	M	AC < AC+ (HL) M dendes (HL) pour ; e; Memory
4,	ADC	В	Add with cavoy. AC = AC + B + Cy = premous (avvy
5.	SUB	В	AC - AC - B
	SUI	054	Ac = Actosh
	SBB	В	Subtract with borrow. AC - AC - B - Borrow.
8.	INR	B	B= B+1. Increase value of data by 1.
1.	INX	В	BC = BC + 1 Increase address storad in register pair by 1.
			register pur
/o·	DCR	В	B = B-1
	DC 💢	B	BC = BC-1
	DAT)	B	HL - HL + BC
			Add 2 memory adduces., Stored in register par pains. Destination is always stored in

II. Logical	
1. ANA B	AND will documulator.
2. ANI 05h	AND with secumulator ammediate. AC AC & 05 h
3. ORA B	OR with AC AC - AC / B
4. ORI OTH	OR with AC Immediate. AC = AC OTh
5 X RA B	XOR with AC.
6. XRI osh	XOR with AC Immediate.
1. CMP B	lombare with AC . If, $A > B$ $C = 0$ $Z = 0$ $S = 0$ $A < B$ $C = 1$ $Z = 0$ $S = 1$ $S = 0$
	A = B C=0 Z=1 Here, C > lawy flag Z > Zero flag S > Sign flag.
8. CMP M	compare AC with data samed in
9. CPI osh	lompare AC îmmediate
10. RLC	Rotate left without Carry

	RAL Cy AC	Rotate left with Carry
	RRC ay Ac	Rotate right williand carry.
	RAR cy AC	Rotate righ with cavey.
14.	CMA	set Cavry. C = 1.
15 ·	STC	Complement Carry. C== E
	Branching .	
2. 3. 4. 5.	JC JNC JZ JNZ JMP JPO (Dump of odd) (Dump of even) JRE JP (Dump of positive) JM (Dump of minus)	Jump if Cowy is set. Jump if Cowy is not set. Jump if Zero is not set. Jump if Pavity is set. (odd) Jump if Pavity is not set. (Even) Jump if Pavity is not set. (Even) Jump if Sign is not set. (or the Jump if Sign is not set. (- ne)