		classmate Date
	O PCODE	Mnemonic Date roge Flags that one affected
0	00000	NOP
	00001	AND RZ - RX & RY (ALW) Z
2	00010	and a series (ALU)
3	00011	F TO O P BRY (ALW) Z
4	00100	ADD RZ + RX + RY
5	00101	ANDI RZ + Rx & Imm Bata ALW Z
6	20110	ORI RZ - Rx ImmBata ALW Z
7	00111	FIRST RZ & Ry P Imm Deta (ALL)
8	01000	ADD I BY + Imm Bata ALW Z.C.
9	01001	MOV RZ CRX +0 (ALU)
10	01010	MOVI R= + 0 + Imm Data ALW
1.7	01011	1 and Roy Mr Maddings
12	01100	Store M[ANDRESS] & R. X +0 (ALL)
13	01101	JMP Jump to Code Address
14	01110	JMPZ Jump it Z=1
15	01111	JMPNZ Z=0
16	10000	JMPC C=1
17	10001	JMPNC C=0
18	10010	PUSH Stake Px+0 (ALW)
19	10011	POP Rz - Stack
20	10100	IN Rz + Port [Address]
21	10101	OUT PortAdoher - Ax +0 (ALU)
22	10110	Load Indirect RZ - M [Rx]
23	10111	Store Indirect M[Rx] = Ry +0 (ALD)
24	11000	SUB RZ RX-RY (ALW) ZC
25	11001	Shift Right RZ < Rx>>> Ry (AN) 7, CXR
26	11010	Shift Left Rz Rx Kx Ry (A) Z, C+R
27	11011	JMPZ PC Relative Jumpto (PC+Offset) (ALL)
28	11100	JMPNZ PC Relative " " (ALL)
29		MP on to Albania
30		TRANSPORT NO PORTING
31		

	OPCODE	Sr. No.
NOI	00000	0
ANI	00001	1
OI	00010	2
ExOI	00011	3
ADI	00100	4
AND	00101	5
OR	00110	6
ExOR	00111	7
ADD	01000	8
MOV	01001	9
MOV	01010	10
Loa	01011	11
Stor	01100	12
JM	01101	13
JMP2	01110	14
JMPN2	01111	15
JMPO	10000	16
JMPNO	10001	17
PUSI	10010	18
PO	10011	19
Iì	10100	20
OU	10101	21
Load Indirec	10110	22
Store Indirec	10111	23
SUI	11000	24
Shift Righ	11001	25
Shift Let	11010	26
JMPZ Relativ	11011	27
JMPNZ Relativ	11100	28
	11101	29
	11110	30
	11111	31

How to write in assembler? (Example given below) Comments NOP; AND, R12, R2, R5; OR, R3, R15, R6; EXOR, R3, R15, R6; ADD, R13, R15, R2; ANDI, R3, R15, 77; ORI, R3, R15, 88; EXORI, R3, R15, AB; ADDI, R10, R15, FC; MOV, R12, R7; MOVI, R14,AC; Means LoadI R10 <--- M[81H] LOAD, R10,81; STORE, 83,R10; Means LoadI M[83H] <---R10 JMP, AB; Means JMP to address ABH in the instruction mememory JMPZ, AC; JMPNZ, AD; JMPC, AE; JMPNC, AF; Means PUSH Stack <--- R12 PUSH, R12; Means POP R13<--Stack POP, R13; Means IN R11 <--- P[F1H] IN, R11,F1; OUT, F2,R14; Means OUT P[F2H]<--R14 LOADI, R10, R2; Means LoadI R10 <--- M[R2] STOREI, R10, R2; Means StoreI M[R2]<--R10 SUB, R12, R13, R14; SHIFTR, R12, R13, R14; Means Shift Right R12<--R13>>R14 SHIFTL, R12, R13, R14; JMPPCRZ, AD; JMPPCRNZ, AE;