ADDRESSING MODES - 8051

TYPES OF ADRESSING MODES-8051

Amil	IMMEDIATE addressing mode
2.	REGISTER addressing mode
co.	DIRECT addressing mode
4.	INDIRECT addressing mode.

IMMEDIATE ADDRESSING MODE

Mnemonic	Remarks
MOV A, #24	; Move immediately the data 24 into the Accumulator.
MOV B, #10	
MOV C, #46	

REGISTER ADDRESSING MODE

MNEMONIC	Remarks
MOV A, RO	; Copy the data from register R0 into A.
MOV R0, A	; Copy the data in A into the register RO.
MOV B, A	; Copy the data in A into B.
MOV ;R1, DPH	; Copy the data in DPL into register R1.

DIRECT ADDRESSING MODE

SFR	Address (HEX)	SFR	Address (HEX)		SFR	Address (HEX)
A	0E0	P1	90		SP	81
В	OFO	P2	0A0		TCON	88
DPL	83	P3	0B0		TMOD	89
DPH	83	PCON	87	. ""	THO	8C
IE	0A8	PSW	0D0		TLO	8A
IP	0B8	 SBUF	99	 	TH1	8D
FO	80	SCON	98		TL1	8B

INDIRECT ADDRESSING MODE

MNEMONIC	OPERATION
MOV @Rp,#n	Copy immediate byte n to the address in Rp.
MOV @Rp,add	Copy the contents of add to the address in Rp.
MOV @Rp,A	Copy the data in A to the address in Rp.
MOV add,@Rp	Copy the contents of the address in Rp to add.
MOV A,@Rp	Copy the contents of the address in Rp to add.