There are fire addressing modes:

- @ Register Addressing Mode.
- Direct Addressing Made **6**
- @ Register Indirect Add. Mode.
 - Immediate Add. Mode
 - @ Base register plus Inden-register Indirect Idd mode.

SHOWING Addressing Mode & Associated Memory

	-Maressing Mode	Memory Space 1
(a)	Register Ad. Mod	e Ro-R7, Acc, B, DATA
	Direct Ad. Mod	e RAM, SFR
(C)	Register Indirect	Internal RAM (@RI, @Ro, SP)
6	I mmediat Ad. M	ode Program Memory.
0	Base Register plus Talox Register Inc	S Program Memory lirect (@DPTR+A, @PC+A)
69 10105	Ad. Mode.	36 1 19 19 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Register Addressing 8-8 Working negisters of selected pegister Dank one need. Acc, B, DPTR, CY - also need.

NOTE: Boolean Processor - 8051 - 'Cy' used an anumulation

6 Direct Addressing & The method to use or to access the SFR. and lower 128 bytes of internal RAM is direct Addressing Mide

Register Indirect Add reming 8 - content of Roar Ri is used as pointer to memory location of 256 byte size. The memory space that used as is Internal RAM (by wring @R., @AI, SP) or External RAM (by using @RI, @RO, @ DPTR). SFR cannot be accessed.

- I warrediate Addressing o- It is wed for program memory
- @ Base-Register plus Index-Register Indirect Addressing 8 It is used to access a byte from the program memory indirectly from the location whose address is sum of Base Register (DPTR, DC) and index Rogister (Accumulator). Ex: @PC+A. Look up table

Instructions format of 8051 :-

ADD A, Rn. (where n=0,1,2,...7). Add content of accomulator & specific working register & result 3 tores at Accumulator.

ADD A, direct-state & specified addrew's content & places
Add content of Accumulator & specified addrew's content & places result into accumulator.

Add content of memory pointed by Ri with content of Accumultation Add content of memory pointed by Nillator.

ADD A, # Data.

Add content of Accountator with numediates data & Traces The Conegait into Accumulator

Example 192101 D. 190 MARI JUNESTIL (1) Add 574 2 6 AH & Store result into 524 memory location

ADD A, # 6AH.

Lewis 128 byte of internal

RAM, SFR

MOV 52H, Apport | Eulardiger 200 (B) J. S. R. R. 315+68 J. Just [@DPTR+ A, @PC+1)

MOV A, #57H

A #6AU SOM Has! Result. 52H -> C1H.

Direct Ad. 140de

12 Wo Add 35H & 63 H wing pointer. Use Roas pointer.

[By default Ronk o is selected on reset].

n, assed on a xe haken #514. MOV Ro,

, Q RO 52 H MOV A,

Lazu ADD A, 52H

JAMA JAMASAN DE SANS 53 H Result.

MOV 53H, A. Torono de la minaria FIRE Lines to (42 cially was price for caterial of the SIR carrot be Accessed