The 8085 instructions are classified into six george

- 1. Doda Teansfee Geoup
- 2. Arithmetic Group
- 3. Logical Geoup
- 4. Branch Control Group
- 5. Stack, I/O and Machine Control Geoup
- 6. Intercupt Conted Geoup.
- 1) Dola Teansfee Georp:
- The instruction of this group teamsfer data from some ce to destination without changing the content of some ce.
- → The flag content is not affected by any instruction.

  → The instruction of this group perform various teamsfer as:

Data Transfer Geoup

Register Dala Register Dala Memory Register Register Memory Register Memory. MOV 94, 82 MOV M, 9L MOV 2, M MVI M, data MVI e, data XCHG STA adde LDA addr LXI ep, dada SHLD adda LHLD adde STAX RP LDAX RP

S-No.	Instruction	Description	No.of	Addressig	Example Before After Execution Execution	
			Bytes	Mode	верые	After
			0		Execution	Execution
1.	MOV x , x2	The content of register			MOVA	В
	[84] 4 [R2]	The content of registery	1			(A)= 63H
					(B) = 634	(B) = 63 H
2.	MOV R, M	The content of memory			MOVA	, M
	[x] + [[HL]]	The content of memory whose address is in	1	Andirect	HL = 2500 H	, M HL= 2500H
		register pair ep, moved	,			[2500] = 751
		to register r.		1	[A] = 33 H	
						0.52 1011
3.	MOV M	The annitary al register		4. 4: 2.4	MOV M.	A
3.	r2	The content of register	L	marrece	HL=2500 H	A HL= 2500 H
	[[HL]] - x	r is moved to memory		KO	[2500] = 75H	[2500] = 83+
		location address by HL pair			[A] = 33H	[A] = 33 H
4.	MVI 2, date	2) Data is moved to	2	Immedia	& MVI	B, 53H
	[k] - data	register r.			[B] = 38 H	[8] = 53
5.	MVI M, data	The data is moved to	2	Immedia	te MVI	M. 14H
		Memory location whose	-	11	1	HL= 25001
		address is in HL pair.		1	1	[2500] = 141
						2300] = 14.
6.	LXI &p	The 16 bit data is				
			3		1	H, 1234 F
	-	Moved to register pair exp				[HL] = 1234
				27.0	[H] = \$56	r
					[L] = 3678	[L] = 37
7.	LDA adde	The content of memory	3	Direct	LDA	7000 H
	[A] = adde	location whose address				(A) = 11 H
		is specified in instanct				
		is loaded into accumula	1		[1000] = 11 H	[7000] = 114

Q I	STA	77			0 - 1	19)
0.	adde = FA7	The content of accumulate is stored in memory locate	3	Direct	[A] = 55 H	[A] = 55H
	רים ני	whose address is specified	gin.			[7000] = SSH
٩.	LHLD adde	The content of memory location whose address is specified is loaded.			[7001]=12H	[L] = 34 H
10.		The content of register	3			000 [7000]= 554
	adde+1 < H	is stored at specified Memory location.			[100]] = 12 H [L] = 55 H	[700] = 44 H [L] = 55 H
11.	LDA X 2p [A] ← [[2p]]	The content of memory location, whose address	1	Indiced	LDAX	(H) = 44 H D (DE) = 50001
		in ep, is boaded in acc.			[A] = 22H	[S000] = 11H [A] = 11H
	[[2p]] ~[A]	The content of accumulator is stored in memory location whose address is in sp			BC]= 7500H [7500] = 11 H	(BC) = 7500H [7500] = 11 H
13.	XCHG	Exchange the content of HL with DE pair.	1	Register		[HL] = 5678A
					DEJ = 5678H	[DE] = 12344