1) Data - Transfer Instruction

8086 µp supposits of data movement between siegisters, siegisters and memory, siegisters and memory, siegisters and immediate data, memory and immediate data.

MOV Destination, Source.

Destination	Sowre.
Registed	Immediate data
	Immediate data
Register	Register
Register	menary
mensy	Register
Segment	menoly.
memory	Segment
Register	Segment
Segment	Regioner.

All the bossible destination and source God 6.

- Disect boding of the Segment register with immediate data is not allowed.
 - -> MOU instruction will not be able to set the values of CS and IP register.

-> MOU will not be able to Copy The value of one segment register to another segment register.

MOU Register, Immediate data. L>> 8-6+ / 16-6+7.

Eg° 0 MOV CL; 82H It will load CL register with the B-bit immediate data 82H.

MON CX, 2030H. (2)CX = 2030H.

MON CX, 20H X not valid.

16-bit

16-bit

000:

-> Size of segister and immediate data should be same.

memory, immediate data.

MON [0345H], 23H.

MA= BA+ EA

= DSX16,0 + 0345H

= 20000 + 0345H = 20345H. = 2000 X1610 + 0345 H

8086 [] Squale brackets are used men Day.

@ MOV [BX], 45H

MA = BA + EA

= DSX1610+ BX

= 2000 × 1610+ 4502H

= (24502H) < 45H will be stored.

3 MOV [0345H], 2345H.

MA = BA+ EA

= DSX1610+ 0345H

= 2000 ×16,0+ 0345 H

= (20345H-) < 45H.

20346H < 23H.

16-617 Immediane
dana can be
served in
memory

(4) MOU [BX], 2104H.

MA = BA+ EA

= DSX1610+ BX

= 2000 X16,0+ 2424 H.

= (22424H) CO4H.

(22425H) & 21H.

```
MOV SS:[BX], 4232 H.
   MA = BA + EA
      = SSX1610 + EA
  -> we have used Segment overside pietx.
 MOU Accumulated, memory.
Eg: 8-bit Operation. (always use AL as accumulated).
         MON AL, [0203H]
                       MA= BA TEA
                          z D8×1610+ 0208H.
                          = 2000 ×16,0+020341.
                      will be
                        apied.
 16-bit operation (always use AX as).
   MON AX, [0208H]
    20208H) AL regioner.
   20209 M ) AH regisser.
```

memory, accomulately MOU [BX], AL -> 8-bit operation Egio MOU [BX], AX -> 16-6it operation. S13e 2013 must memory, Register MOU Register, memory.

MOU CL, AL some.

MOU CX, AX

MOU CX, AX menory, e not allowed. Mon CX, [BX] MON MA = BA + EA. = 08×1610+ BX. = 2000 X1610+ 1200H. = (21200 H) (21201H) CH. MOU CL, [BX] mov CH, [BX] (21200h) CM.

Q more the content of DX registers.

MOU 22, DX.

Q Load 16-bit data from memory 10 cartion offset address is 0300M.

MON AX, [0300]

XCH Cy Destination, Source.

(Exchange dana beroween source to destination).

Destination Source.

Destination Source.

Register.

Register.

Register.

Register.

Register.

Ly Exchange of contents of two memory locations is not allowed.

Eg: XCHGI [4000], AX

MA=BA+EA
= DSX10,0+4000
= 240004.

24000H = AL 2400 | H = AH