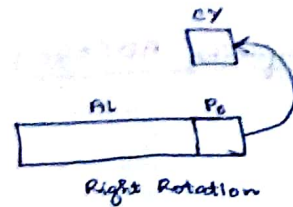


Monitoring
EOB {
MOV DX, PC
L1: IN AL, DX
ROR AL, 1
INC L1



OE {
MOV AL, 06H
MOV DX, PB
OUT DX, AL

Receiving
Signal
Data {
MOV DX, PA
IN AL, DX
Ending
code { INT 3

Addressing Modes of 8086

Register {
MOV AL, BL \rightarrow AL \leftarrow BL
ADD BX, DX \rightarrow BX \leftarrow BX + DX

Immediate {
MOV DX, 1000H \rightarrow 1000H is loaded as a 16 bit data in DX reg.
MOV CH, 55H \rightarrow 55 is an 8 bit Immediate data being loaded into CH reg.

1. Register Addressing Mode
2. Immediate Addressing Mode
3. Data Memory " "
4. Program Memory " "

3 Data Memory Addressing Mode

byte info is transferred

1) MOV BL, [1000]

2) MOV CX, [2000]

word info is transferred

Direct Addressing

DS = 8000H

① EA = DS × 16 + 1000

Effective Address = 81000H

② EA = DS × 16 + 2000

= 82000H

1) MOV AL, [BX]

2) MOV DX, [BP]

Base Addressing

① EA = [DS × 16 + BX]

② EA = [DS × 16 + BP]

1) MOV AX, [BX + 05]

2) ADD BL, [BP - 100]

Base Relative Addressing

1) MOV AX, [SI]

~~2) MOV AX, [DI]~~

2) MOV [DI], CL

Indexed Addressing Mode

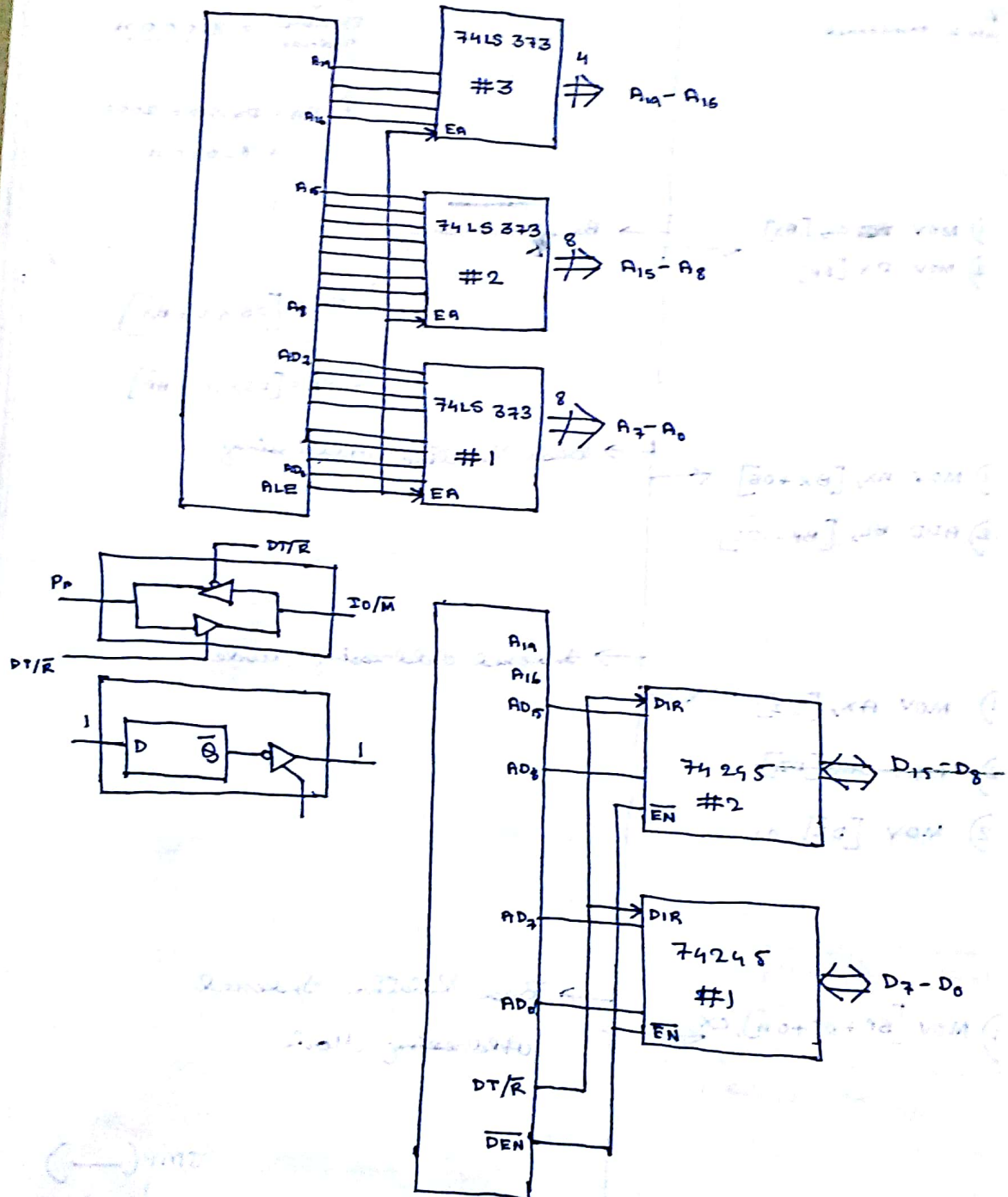
1) MOV [BP + DI + 0A], CX

Base Relative Indexed Addressing Mode

JMP(—)

Long JMP Short

Demultiplexing of AD Bus of 8086



1 MB = 1024 KB

↓
512