

Common - Cathoole 7 Sey. Display

I seg. display is multiple display using LED.

It can alisplay all decimal numbers and some

Teter. There are diff. Some kind of ekts in market

peter 9 - segment LED, 14 Segment LED....

There are two types of 7 - segment display.

(i) Common Cathode - where +5v. d.c is applied to any segment to glow the corresponding LED.

Similar to Active High i/p

(ii) Common Anode - whose ov. or' and annection is required to Juitch on the Grossponding LAD. Similar to Active Low i/P.

Thee 7-segment display device is not connected directly with I/O Ports. Therey are connected using Deader Or' Buffers.

FND 500, FND 503 - Cathode) 7 Segunt display!
FND 507, FND 570 - Omen Anode. . 1

(4: To 8 Deceden)

BCD to 7 Seg decorpto Decoder Habis 74LS 48

15 world to interforce beth 7 Seg display Device

15/D Port (8255). The fig of Configuration is stown:

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Here we can note following!

(i) Port B is used to send stata to 742548 chip.

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(DCBA) this how data comes at BCD 7 seg display

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Port B add: OIH. OSH data

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Not wise DIOA

Bits

OVT OI 14: 9 Decoder, for 1/P 0101.

HLT Re off is I

If A.B.C. D value is > 10 then Segment will display random figures. * * We can parallely add another & segment display with Port D using (PB4 - PB7); # Write a program to displays 0-9 decimal number Cret-Control word at Accumulator MV1 A , 98 Initialize Post OUT 03 Great Count LX1 H, 2500 ABOVE : Count in reg E MOV E, M LOOP! INX H. Great next wumber M A VON olp at Port B. 007 OI OF MVI B GOZ! MVI C FF 601: MVI GO: DCR D JNZ GO DOR C JNZ G01 DER B JN2 602 DCR E Go to Loop to get next, number I N'S LOOP GO ABOVE to pestarl-. JMP ABOVE 2500 - OA (contre)2505. 2506-05 2502 - 01 , 2507 - 06 2503 - 02 2508 -07 2504 - 03 2509-08 2505 - 04

Interfacing 7-segment Display using Bubler?

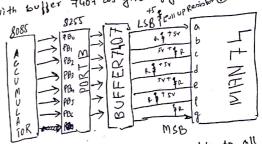
Buffer 7407 is used home for interfacing. It has

some & six off pins which can be used to give direct i/p

to the seven segment display chip. Here Port B is connected

with buffer 7407 as given 7ig.

158 is connected



HA As here we can directly give i/p to all segments of MAN74 chip so, the 7 segment prepresentation Table

of MAN74	cm p sos	. ,	a-de	_
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8	67	= /		
9	0 1			me me

Culculation: In case of BCD to fleg. Bottop Decoder, we need not think about the ilp Hex Code. we can give all which not think about the ilp Hex Code. we will get corresponding display BCD numbers (0...9) So that we will get corresponding display