

Lab

10

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Tools that Required.

- ① Power electricity
- ② Bread Board
- ③ LED (1 Segment Display)
- ④ Logic Gates.

BCD to 7 segment Display

⇒ In Binary coded decimal (BCD) encoding scheme each of the decimal number (0-9) is represented by its equivalent binary pattern (which is generally of 4-bits)

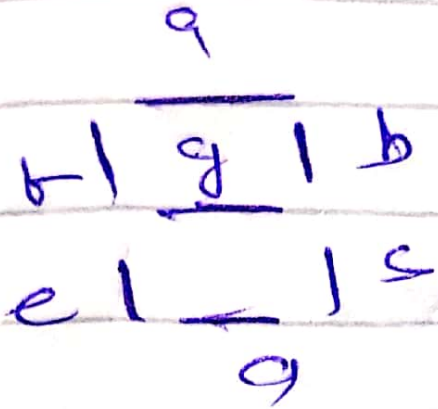
Dode (LEDs) arranged in a same definite pattern.

Types:

Two types of seven segment:

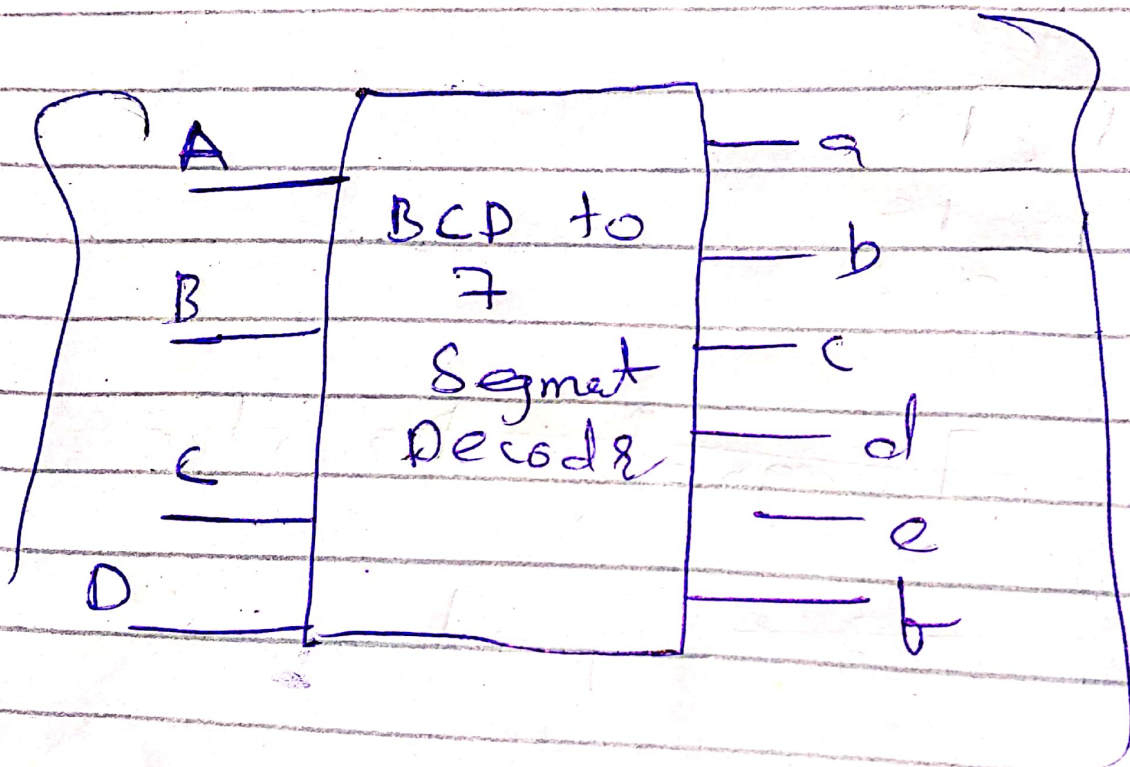
LED display

- Common Cathode type
- Common Anode type



(BCD to 7 segment Decoder)

⇒ BCD to 7 segment decoder is a circuit used to convert the input BCD into a form suitable for display.



BCD to 7 segment Decoder

1) Because 7-segment display does not work by directly supplying voltage to different segments. As LEDs. First our decimal number is changed its BCD equivalent signal then BCD to 7-segment decoder converts ~~the~~ that signal to the form is used to 7-segment display.

PO	D	a
CO	C	b
BO	B	c
AO	A	d

a	b	c	d	e	f	g	h
b	c	d	e	f	g	h	a
c	d	e	f	g	h	a	b
d	e	f	g	h	a	b	c
e	f	g	h	a	b	c	d
f	g	h	a	b	c	d	e
g	h	a	b	c	d	e	f
h	a	b	c	d	e	f	g

BCD to 7 segment

7 - Segment

Uses of 7 - Segment

- calculator
- clocks
- Digital watches
- Digital counters
- Various, many
- Circuit can be used as timer circuit

(Conclusion)

We have done to know that how these electric devices like clock, watch, measuring tools numbers and how to make and work on these.