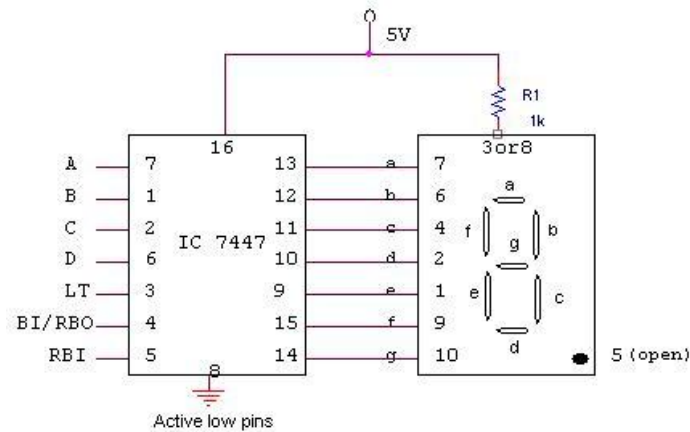


CIRCUIT DIAGRAM:TRUTH TABLE:

BCD Inputs				Output Logic Levels from IC 7447 to 7-segments							Decimal number display
D	C	B	A	a	b	c	d	e	f	g	
0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	1	1	0	0	1	1	1	1	1
0	0	1	0	0	0	1	0	0	1	0	2
0	0	1	1	0	0	0	0	1	1	0	3
0	1	0	0	1	0	0	1	1	0	0	4
0	1	0	1	0	1	0	0	1	0	0	5
0	1	1	0	1	1	0	0	0	0	0	6
0	1	1	1	0	0	0	1	1	1	1	7
1	0	0	0	0	0	0	0	0	0	0	8
1	0	0	1	0	0	0	1	1	0	0	9

PROCEDURE:

- ☐ Check all the components for their working.
- ☐ Insert the appropriate IC into the IC base.
- ☐ Make connections as shown in the circuit diagram.
- ☐ Verify the Truth Table and observe the outputs.

VIVA QUESTIONS:

1. What are the different types of LEDs?
2. Draw the internal circuit diagram of an LED.
3. What are the applications of LEDs?