

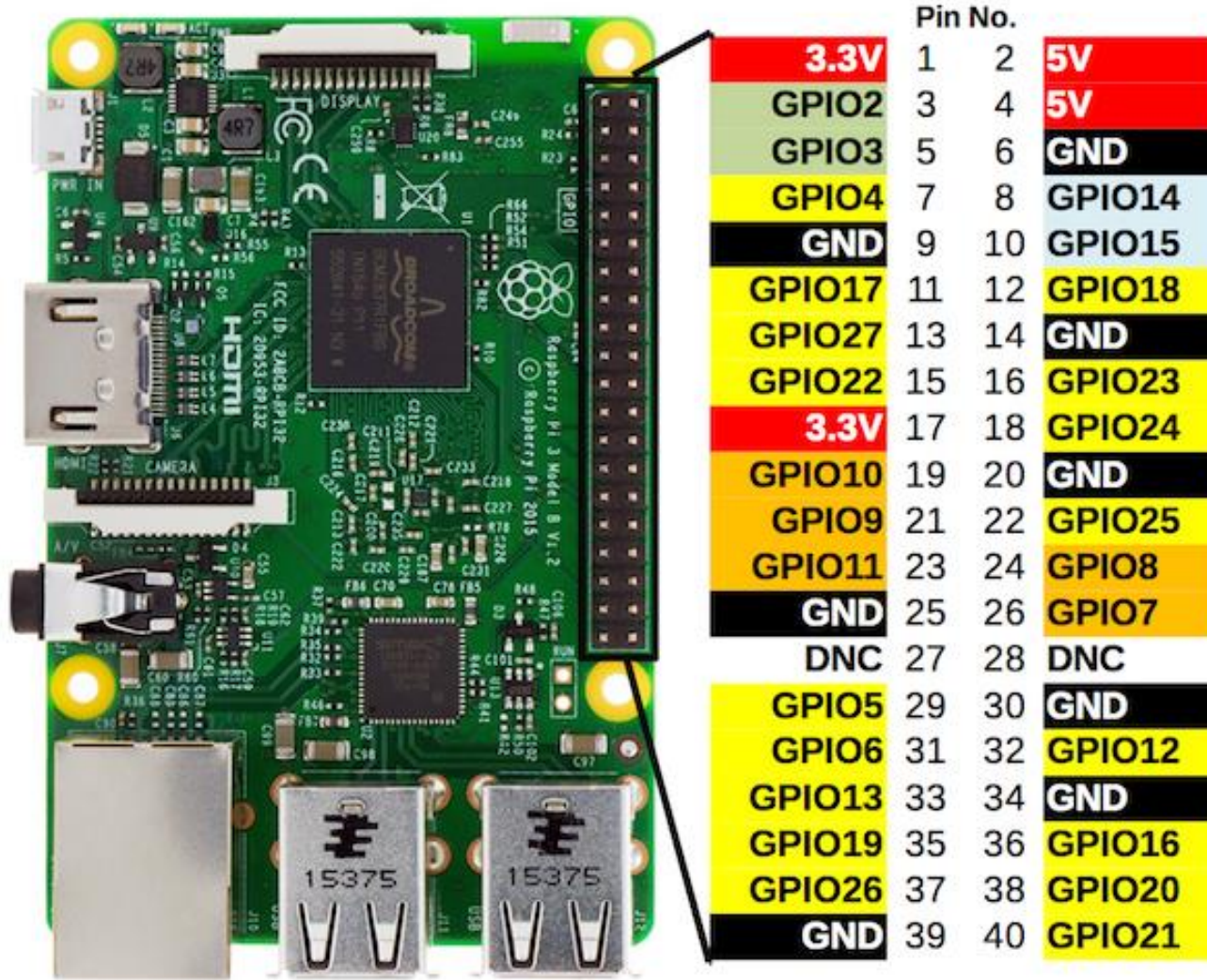


# **4 Byte 7 Segment LED Display**

## **Fun with Raspberry Pi and Scratch**

**- Yashmith Reddy**

# 4 Byte 7 Segment LED Display Pin connections



7 Segment LED Display – Pin info

Note: Refer next slide for the connected PIN info

# 7 Segment LED Display – Connected Pin info

Segment	DP	G	F	E	D	C	B	A
GPIO	13	5	23	26	19	6	24	25

Segment	D1	D2	D3	D4
GPIO	12	16	20	21

# Each 7 Segment LED Display numbers and segments

DIGIT TO DISPLAY	DP	g	f	e	d	c	b	a
0	0	0	1	1	1	1	1	1
1	0	0	0	0	0	1	1	0
2	0	0	1	1	1	0	1	1
3	0	1	0	0	1	1	1	1
4	0	1	1	0	0	1	1	0
5	0	1	1	0	1	1	0	1
6	0	1	1	1	1	1	0	1
7	0	0	0	0	0	1	1	1
8	0	1	1	1	1	1	1	1
9	0	1	1	0	1	1	1	1

# Each 7 Segment LED Display numbers and segments

DIGIT TO DISPLAY	Segments on
0	f, e, d, c, b, a
1	c, b
2	f, e, d, b, a
3	g, d, c, b, a
4	g, f, c, b
5	g, f, d, c, a
6	g, f, e, d, c, a
7	c, b, a
8	g, f, e, d, c, b, a
9	g, f, d, c, b, a

# Appendix

- **Scratch code:**

[https://github.com/Yashmith-Reddy/myscratch/tree/main/4 Bytes 7 Seg Display](https://github.com/Yashmith-Reddy/myscratch/tree/main/4%20Bytes%207%20Seg%20Display)

- <https://pijaeducation.com/arduino/seven-segment/seven-segment-led-types-and-pin-config/>
- <https://pijaeducation.com/arduino/seven-segment/how-to-use-seven-segment-display/>

**Thank You**