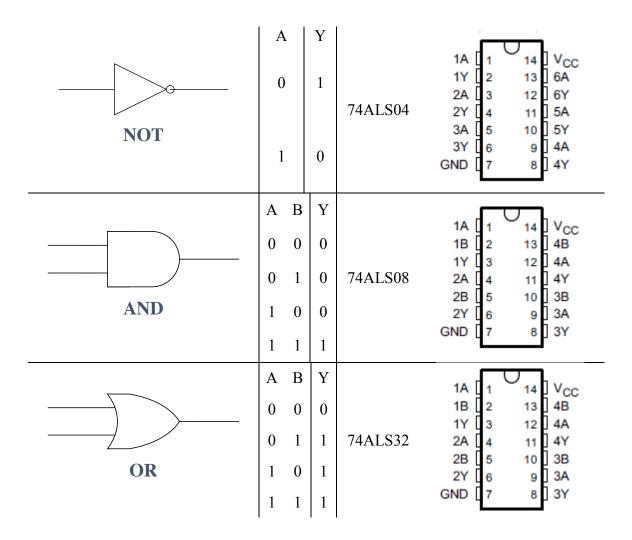
## ECEN 248 Lab 1: Digital Logic Gates

- 1. Know how to use the breadboard: Figure 4 in the lab manual 1.
  - a. Place ICs across the partition divisions.
  - b. Always place ICs with the notch on the top.
  - c. Always connect VCC and GND pins for ICs.
- 2. Digital logic signal "1" corresponds to voltage  $3.9 \sim 4.2 \text{ V}$ .

Digital logic signal "0" corresponds to voltage 90 mV.

## 3. Reference:



- -	NAND	A 0 0 1 1	B 0 1 0	Y 1 1 1 0	74ALS00A	1A [ 1
-	NOR	A 0 0 1 1	B 0 1 0 1	Y 1 0 0	74AHCT02	1Y 1 14 Vcc 1A 2 13 4Y 1B 3 12 4B 2Y 4 11 4A 2A 5 10 3Y 2B 6 9 3B GND 7 8 3A
	XOR	A 0 0 1	B 0 1 0 1	Y 0 1 1 0	74ALS86	1A [ 1