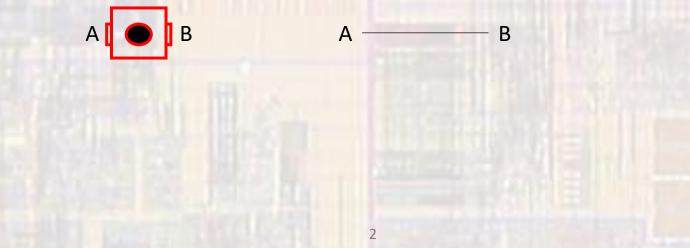
# Last updated 8/16/21

- 2 pin Button
  - Button not pushed open circuit between the pins



Button pushed – short circuit between the pins



2 pin Button – nominally open, pushed → closed

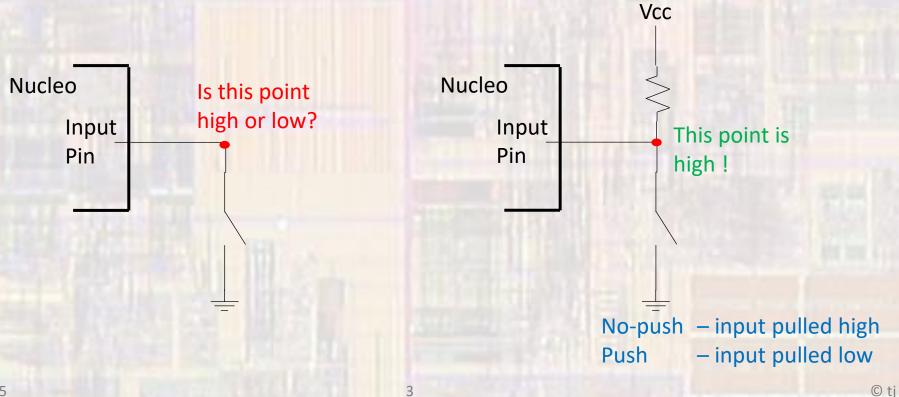
В

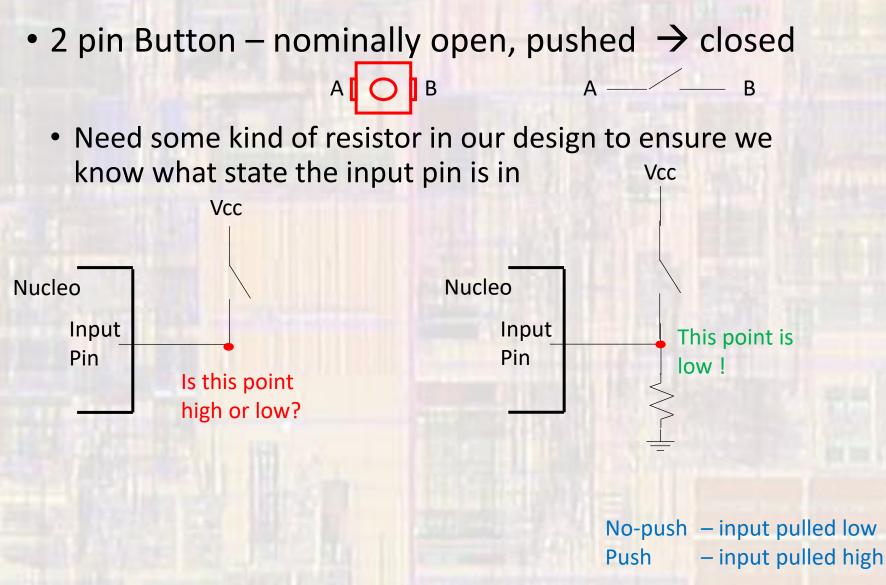
А

В

AO

 Need some kind of resistor in our design to ensure we know what state the input pin is in





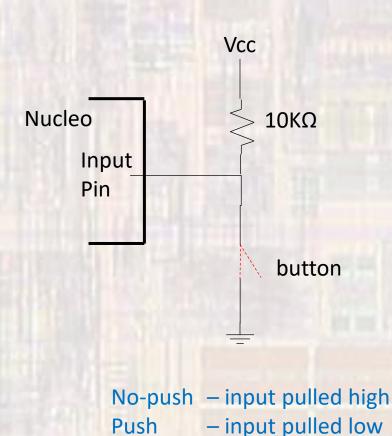
© tj

- 2 pin Button
  - What resistor value?
    - Too small → wasted current (power)

В

5

- Typically several KΩ
- Example
  - 10KΩ
  - Button open → no current (pin high)
  - Button closed →
    (Vcc Gnd)/10,000Ω =
    3.3V / 10,000Ω = 330uA
    (pin low)



B

• 4 pin Button

