Converting Analog signal to Digital signal

Learning Objective: -

* Displaying digital signal from analog signal
* Converting the analog signal to digital signal using ADC 0808
* Controlling 0808 ADC using 8051 Microcontroller

Inputs and Outputs: -

* Input is potentiometer ok 1k or 10k
* Outputs are LEDs

Logic: -

* ADC to connected to 8051 by data pins and controlling pins.
* Assigning pins to that particular port
* Connecting potentiometer to ADC by adding 5v supply to it
* LEDs are connected to 8051 with another port
* Changing the POT will vary the LEDs output based on the digital conversion in 8051
* Max voltage that ADC can convert is 5v only

Common Mistakes: -

* Assigning 5v to the DC supply
* Giving proper range to POT
* Assigning port to LEDs
* Stopping the conversion after particular delay

Results: -

