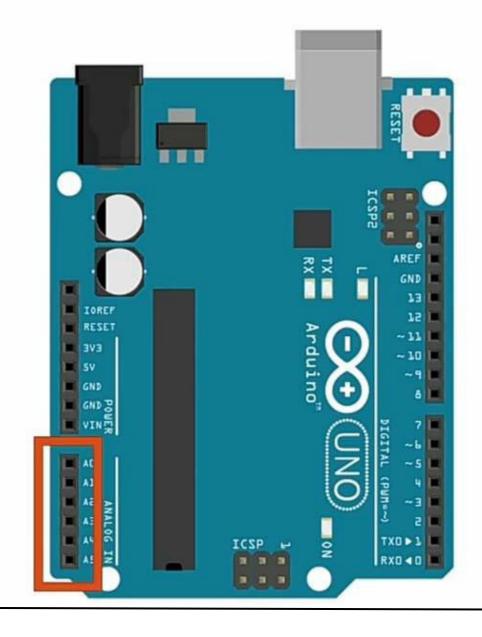
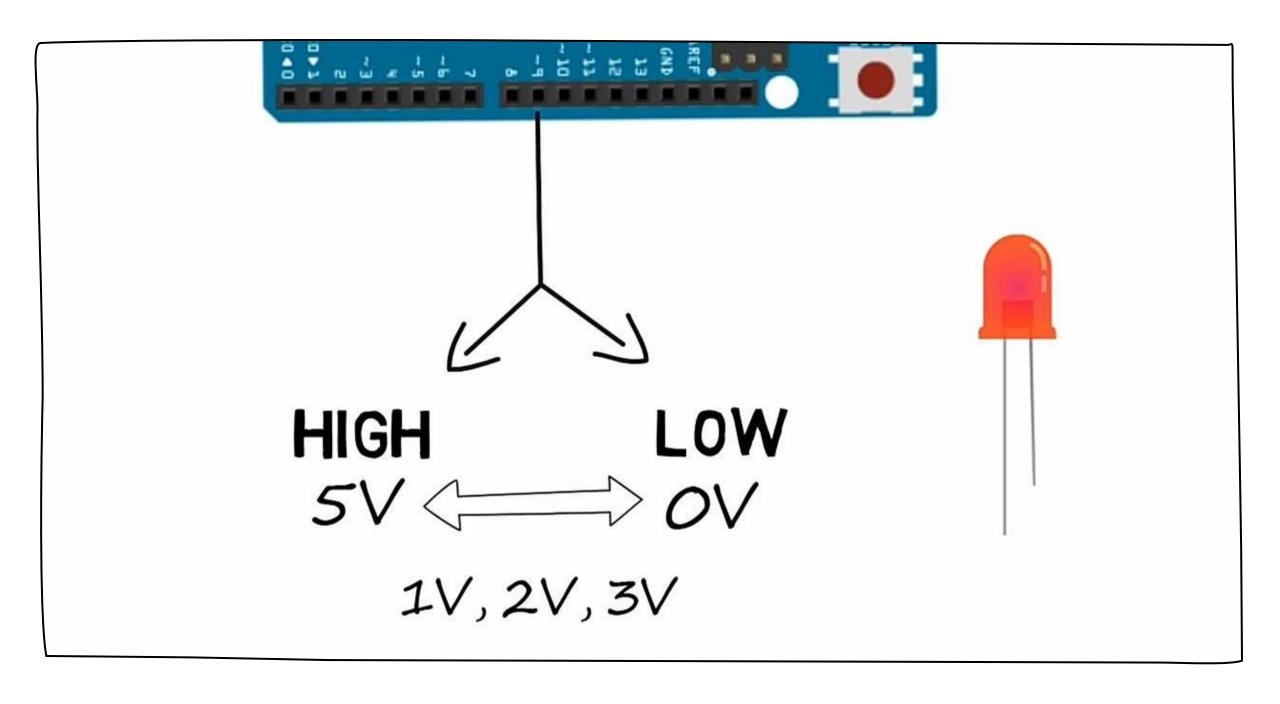
## DIGITAL OUTPUT DIGITAL INPUT



**ANALOG INPUT** 





## ANALOG I/O FUNCTIONS IN ARDUINO PRGRAMMING

## analogRead()

Reads the value from the specified analog pin. Arduino boards contain a multichannel, 10-bit analog to digital converter. This means that it will map input voltages between 0 and 5V into integer values between 0 and 1023.

 Syntax analogRead(pin);

pin: Arduino pin

Ex: analogRead(A0);

## ANALOG I/O FUNCTIONS IN ARDUINO PRGRAMMING

analogWrite()

Writes an analog value (PWM wave) to a pin. Can be used to light a LED at varying brightness or drive a motor at various speeds.

Syntax analogWrite(pin, value);

pin: Arduino pin

value: the duty cycle: between 0 (always off) and 255 (always on).

Ex: analogWrite(6, 200);

