Function to read voltage

Reference voltage Vref

Samples Count

1. Read ADC A2 - function call analogRead(A2);
2. Store in uint_16, ranging from 0-1023.
3. Convert raw voltage to read voltage by Vin = (ADC * Vref) / 1024 ;
4. Store Read value in float var.
5. Convert read value to the actual value by formula derived from VH1K0T01 Vin = (Vout * Rin) / (2.5 * Rb) ;
6. Return the calculated value on serial.
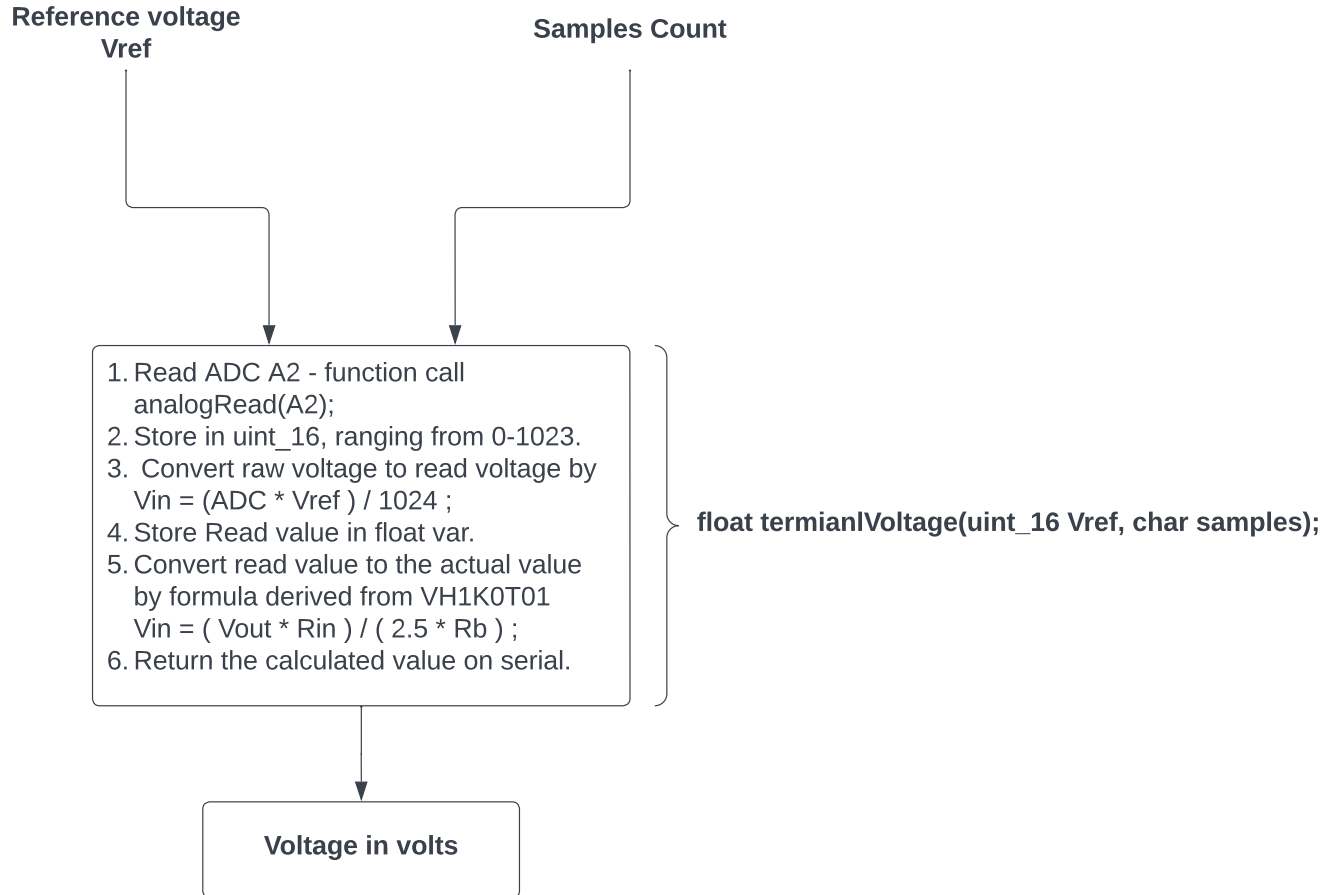
float termianlVoltage(uint_16 Vref, char samples);

Voltage in volts

1. This function takes two arguments, Reference voltage value and No. of samples that should be take of voltage sensing.
2. Output of the function is float type value.