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SYSVOLT = 5
ADC_RESOLUTION = 4095
MAX_VOLT = 2.442
MIN_VOLT = 0

MIN_TEMP = -50
MAX_TEMP = 50
def adc_raw_value(v):
    if(v >= MIN_VOLT and v <= MAX_VOLT):
        ADC = (v*(ADC_RESOLUTION/SYSVOLT))
        return round(ADC)
    else:
        return None
def adc_to_c(x):
    if x == 0:
        return -50
    else:
        return ((adc_to_c(x-1)) + 0.05)
def sensor_temp(v):
    print(f"SENSOR READ: {v} Volt")
    ADC = adc_raw_value(v)
    if ADC is None:
        print("Voltage is not within the sensor range")
    else:
        print("*****\nAnalog to Digital Conversion\n*****")
        print(f"Analog: {v}\nDigital: {ADC}")
        print("*****")
        print(f"Temprature is: {round(adc_to_c(ADC))}")

sensor_temp(MIN_VOLT)

sensor_temp(MAX_VOLT)

sensor_temp(1.221)

sensor_temp(1.5)

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