

2024.04.23

- 2027 mg

Brown

BREWM

Black

BLACK

Row 4

Row

BUA

BLACK

○ replace

Berry

100K

Becky

Back

BLACK

Review

522000
522000

COKE

11C

Flow

Black

B2A24

Blenn

Hand G

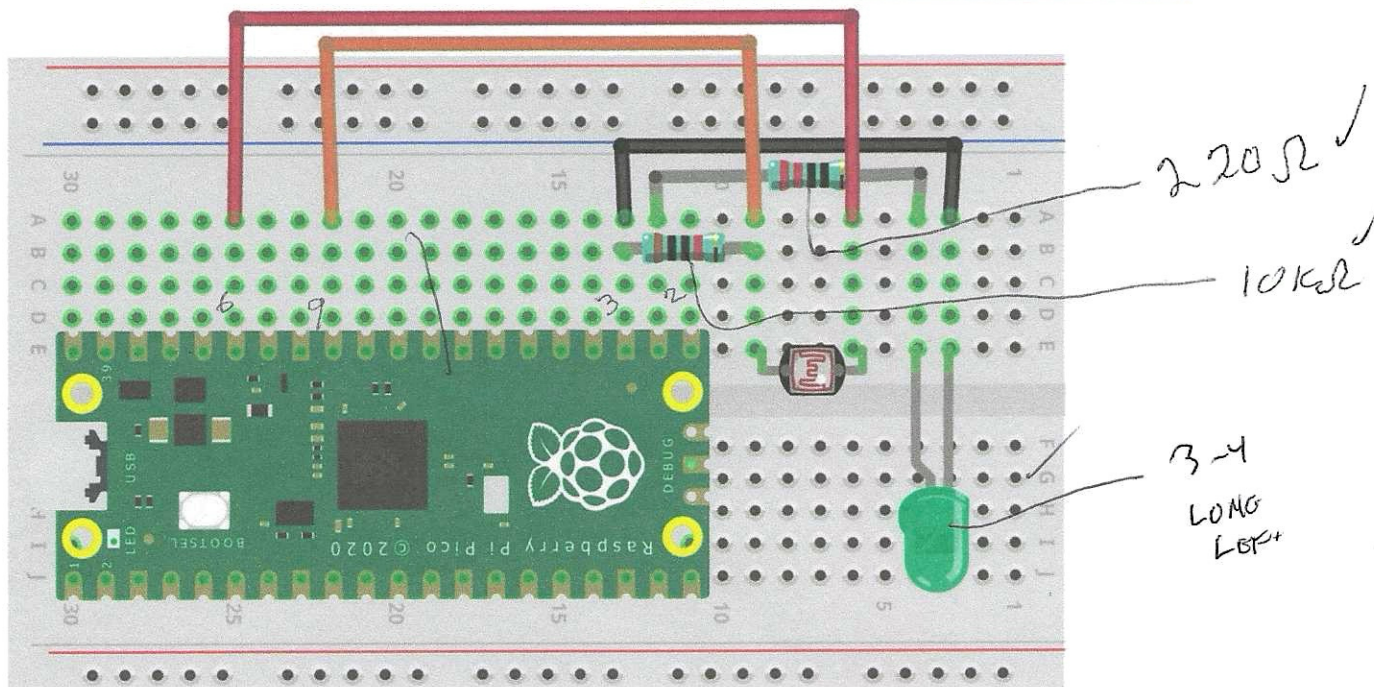
Circuit

- Theirs

Resistors

10k ohm - Photoresistor

220 ohm - LED



6 FROM LGP1
9 FROM LGP1

PIN 35
ADC - VREF

PIN 32
GP 27
ADC1

2 FROM AD0AT GP 17

3 FROM AD0AT GND

Code

- Glance at Code

```
import machine
```

```
import time
```

```
# Define LED Pin
```

```
LED_PIN = 17 # GP17
```

```
led = machine.Pin(LED_PIN, machine.Pin.OUT)
```

```
# Define ADC Pin for LDR
```

```
ADC_PIN = 26 should this be 27?
```

```
adc = machine.ADC(machine.Pin(ADC_PIN))
```

```
# Define a threshold for the LDR reading below which the LED should turn ON
```

```
LIGHT_THRESHOLD = 50000 # This might need adjustment based on your LDR and environment
```

```
def night_light():
```

```
    while True:
```

```
        light_value = adc.read_u16()
```

```
        print(light_value)
```

```
        # If the reading is below the threshold, turn the LED on. Otherwise, turn it off.
```

```
        if light_value < LIGHT_THRESHOLD:
```

```
            led.value(1)
```

```
        else:
```

```
            led.value(0)
```

unsigned 16 bit

PRINTS TO STANDARD OUTPUT

is this the same as storing to the variable (AD_CONVERTER)