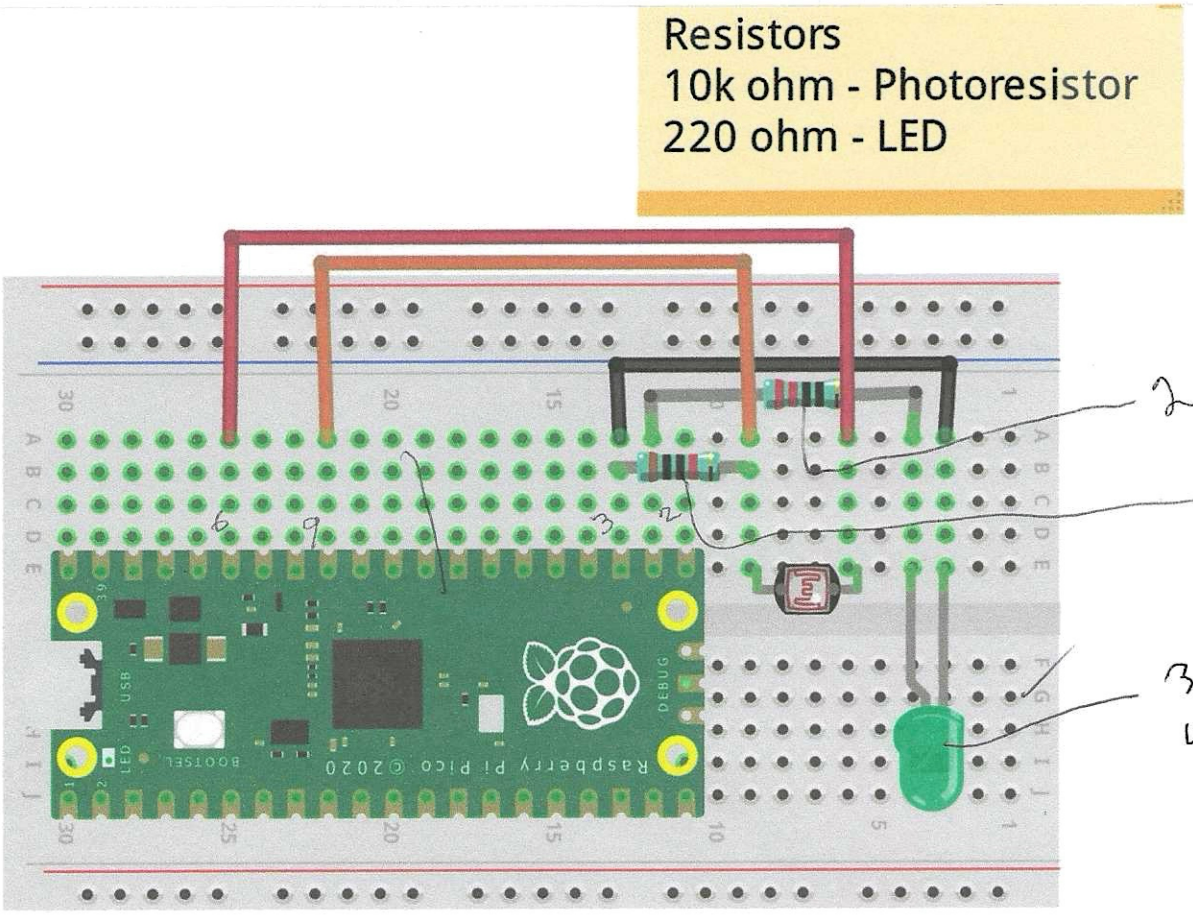
Lesson_3_Notes_and_Journal

2024.04.23

- Look at Code
- Look at Circuit
- Draw Circuit
- Build Circuit
- Start Lesson

Circuit

- Theirs



6 FROM LED- PCM 35 ADC_VREF

9 FROM LED+ PCM 32 GP 27 ADC

2 FROM RIGHT GP 17

3 FROM RIGHT GND

Code

- Glance at Code

```
import machine
import time

# Define LED Pin
LED_PIN = 17
led = machine.Pin(LED_PIN, machine.Pin.OUT)

# Define ADC Pin for LDR
ADC_PIN = 26
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)
```