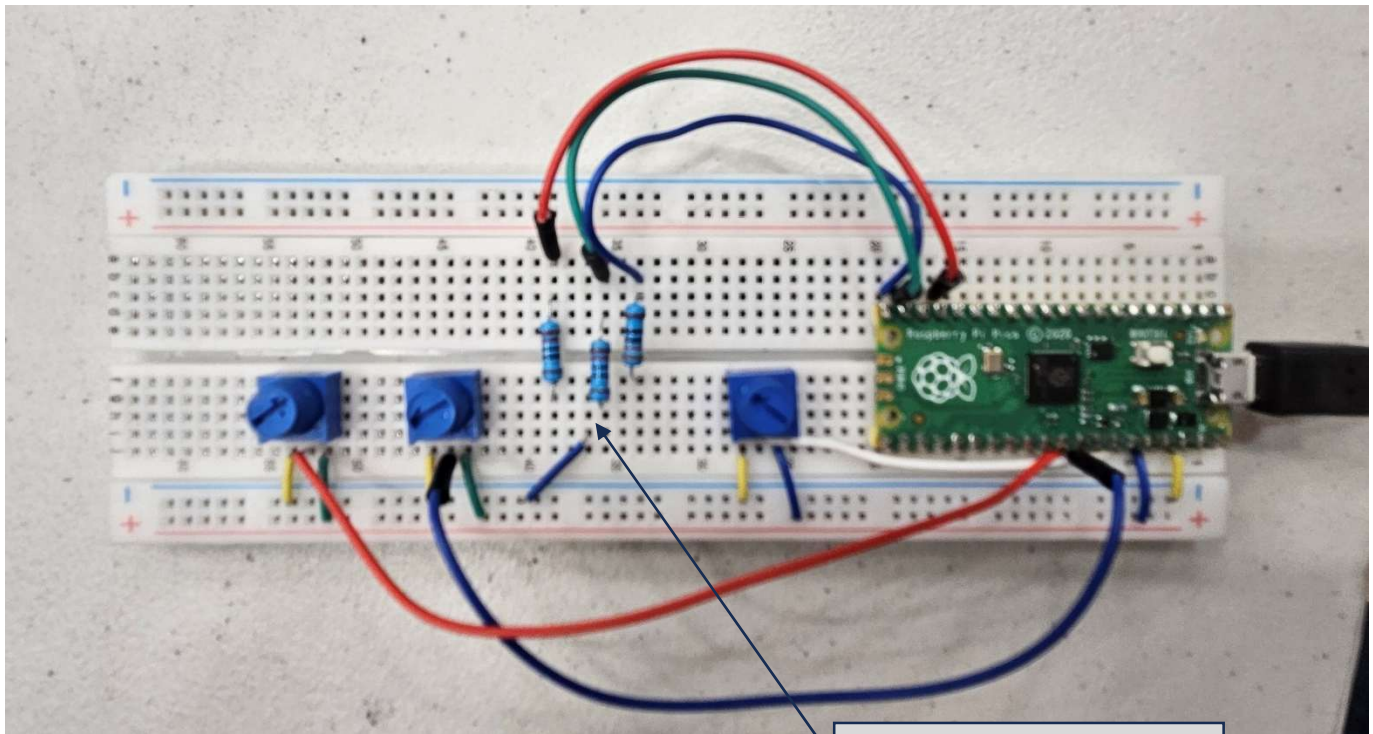


Lesson 6

Control the colors of an RGB LED with 3 potentiometers

Circuit:



RGB LED goes here.
Be sure the longest leg is
connected to the ground rail and
each LED has a resistor.

```
from machine import Pin,PWM,ADC
from time import sleep
potPinRed=26
potPinGreen=27
potPinBlue=28
redPin=13
greenPin=14
bluePin=15
myPotRed=ADC(potPinRed)
myPotGreen=ADC(potPinGreen)
myPotBlue=ADC(potPinBlue)
redLED=PWM(Pin(redPin))
greenLED=PWM(Pin(greenPin))
blueLED=PWM(Pin(bluePin))
redLED.freq(1000)
redLED.duty_u16(0)
greenLED.freq(1000)
greenLED.duty_u16(0)
blueLED.freq(1000)
blueLED.duty_u16(0)
while True:
    potValRed=myPotRed.read_u16()
    redBright=potValRed
    potValGreen=myPotGreen.read_u16()
    greenBright=potValGreen
    potValBlue=myPotBlue.read_u16()
    blueBright=potValBlue

    redLED.duty_u16(redBright)
    greenLED.duty_u16(greenBright)
    blueLED.duty_u16(blueBright)
    sleep(.1)
```