IOT WITH AI LAB 6

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SOURCE CODE:
const int redPotPin = A0; // Potentiometer for red
const int greenPotPin = A1; // Potentiometer for green
const int bluePotPin = A2; // Potentiometer for blue
const int redLEDPin = 9; // Red LED pin
const int greenLEDPin = 10; // Green LED pin
const int blueLEDPin = 11; // Blue LED pin
void setup() {
  pinMode(redLEDPin, OUTPUT);
  pinMode(greenLEDPin, OUTPUT);
 pinMode(blueLEDPin, OUTPUT);
}
void loop() {
 // Read the values from the potentiometers
  int redValue = analogRead(redPotPin);
  int greenValue = analogRead(greenPotPin);
  intmap blueValue = analogRead(bluePotPin);
```

```
// Map the potentiometer values (0-1023) to PWM values (0-
255)

redValue = map(redValue, 0, 1023, 0, 255);
greenValue = map(greenValue, 0, 1023, 0, 255);
blueValue = map(blueValue, 0, 1023, 0, 255);

// Set the LED colors
analogWrite(redLEDPin, redValue);
analogWrite(greenLEDPin, greenValue);
analogWrite(blueLEDPin, blueValue);

// Small delay for stability
delay(10);
}
```

OUTPUT:

