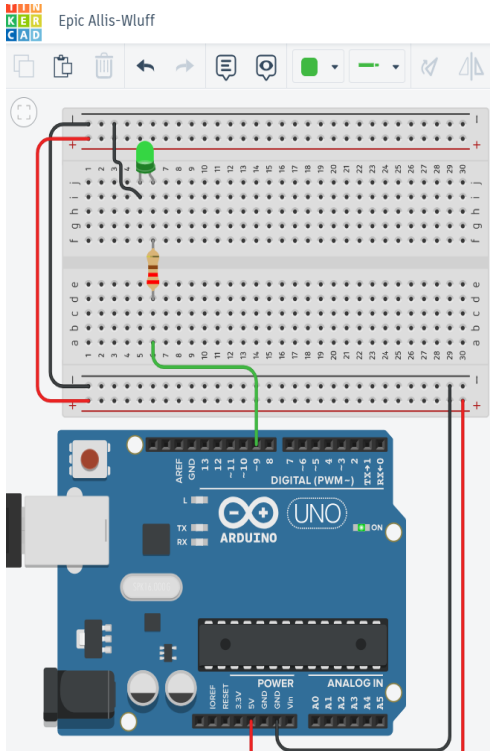


## Practica Virtual Arduino 2

### SALIDA PWM

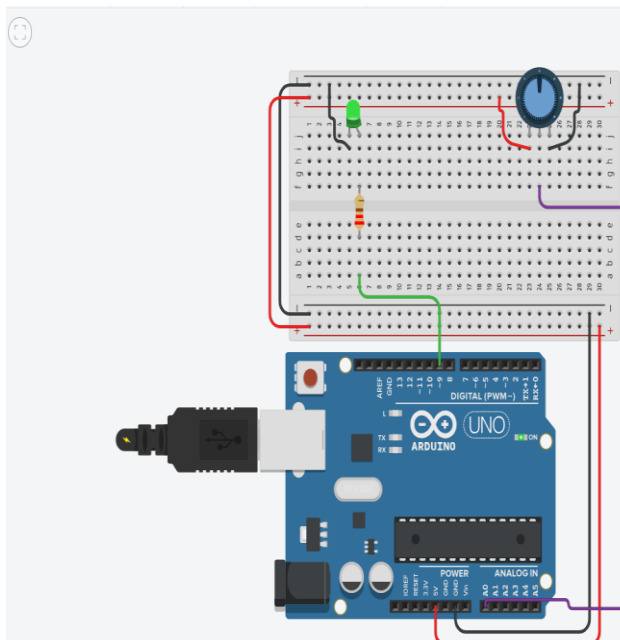
Simulation interface showing an Arduino Uno connected to a breadboard with an LED. The code on the right implements a PWM output.



```
1 // 5. Salidas PWM
2 // Variables
3
4 int led_pwm = 9;
5
6 void setup()
7 {
8   // no necesitamos
9 }
10
11 void loop()
12 {
13   //Bucle de incremento del brillo
14   for (int brillo = 0; brillo <= 255; brillo++) {
15     analogWrite(led_pwm, brillo);
16     delay(25);
17   }
18   //Bucle de decremento del brillo
19   for (int brillo = 255; brillo >= 0; brillo--) {
20     analogWrite(led_pwm, brillo);
21     delay(25);
22   }
23 }
```

### VELOCIDAD DE CAMBIO DE BRILLO

Simulation interface showing an Arduino Uno connected to a breadboard with an LED. The code on the right implements a PWM output with a variable delay.



```
8 void setup()
9 {
10   Serial.begin(9600);
11 }
12
13 void loop()
14 {
15   //Bucle de incremento del brillo
16   for (int brillo = 0; brillo <= 255; brillo++) {
17     analogWrite(led_pin, brillo);
18     delay(delayVal());
19   }
20   //Bucle de decremento del brillo
21   for (int brillo = 255; brillo >= 0; brillo--) {
22     analogWrite(led_pin, brillo);
23     delay(delayVal());
24   }
25 }
```

Serial Monitor

```
63
0
0
```