

```
void setup() {
  pinMode(13, OUTPUT);
}
```

```
void loop() {
  digitalWrite(13, HIGH); // enciende LED
  delay(1000);           // espera 1 segundo
  digitalWrite(13, LOW); // apaga LED
  delay(1000);           // espera 1 segundo
}
```

```
void setup() {
  pinMode(7, OUTPUT);
  digitalWrite(7, HIGH);
}
```

```
void loop() {
}
```

```
void setup() {
  pinMode(8, OUTPUT);
}
```

```
void loop() {
  digitalWrite(8, HIGH); // activa transistor → LED prende
  delay(1000);
  digitalWrite(8, LOW); // desactiva transistor → LED apaga
  delay(1000);
}
```

```
void setup() {
  Serial.begin(9600);
}
```

```
void loop() {
  int luz = analogRead(A0);
  Serial.println(luz);
}
```

```
int motor = 9;
int boton = 2;
```

```
void setup() {
  pinMode(motor, OUTPUT);
  pinMode(boton, INPUT);
}
```

```
void loop() {
  if (digitalRead(boton) == HIGH) {
    digitalWrite(motor, HIGH);
  } else {
    digitalWrite(motor, LOW);
  }
}
```

```
int pot = A0;
int motor = 9;
```

```
void setup() {
  pinMode(motor, OUTPUT);
}
```

```
void loop() {
  int valor = analogRead(pot);
  int velocidad = map(valor, 0, 1023, 0, 255);
  analogWrite(motor, velocidad);
}
```

```
int rojo = 9;
int verde = 10;
int azul = 11;
```

```
void setup() {
  pinMode(rojo, OUTPUT);
  pinMode(verde, OUTPUT);
  pinMode(azul, OUTPUT);
}
```

```
void loop() {
  // rojo
  analogWrite(rojo, 255);
  analogWrite(verde, 0);
  analogWrite(azul, 0);
  delay(1000);
}
```

```
// verde
analogWrite(rojo, 0);
analogWrite(verde, 255);
analogWrite(azul, 0);
delay(1000);
```

```
// azul
analogWrite(rojo, 0);
analogWrite(verde, 0);
analogWrite(azul, 255);
delay(1000);
}
```

```
#include <Servo.h>
```

```
Servo servo;
```

```
void setup() {
  servo.attach(9);
}
```

```
void loop() {
  servo.write(0);
  delay(1000);
}
```

```
servo.write(180);
delay(1000);
}
```