Seminario y práctica de Arduino



UNIVERSIDAD DE GRANADA

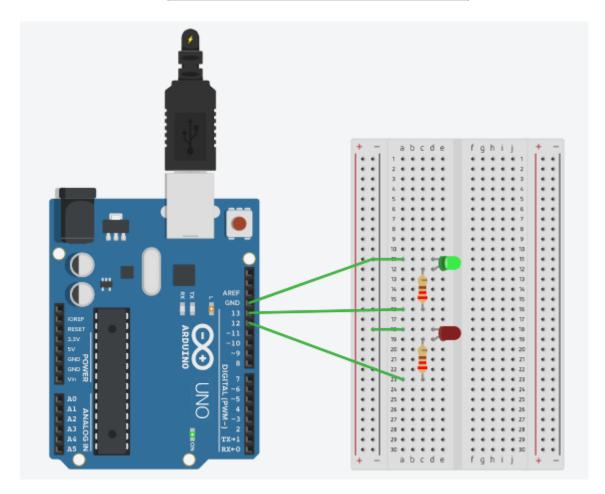
** Resistencias: 220 ohmios **

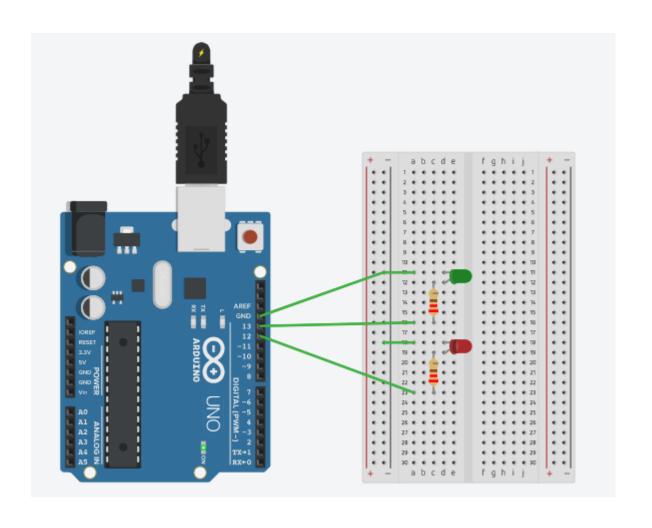
SEMINARIO

Parpadeo de led en el que se encienden y apagan alternativamente dos LEDS conectados a las salidas digitales 12 y 13 a un intervalo de 1.5 segundos:

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

void loop()
{
   digitalWrite(13, HIGH);
   delay(1500); // Wait for 1500 millisecond(s)
   digitalWrite(13, LOW);
   digitalWrite(12, HIGH);
   delay(1500); // Wait for 1500 millisecond(s)
   digitalWrite(12, LOW);
}
```



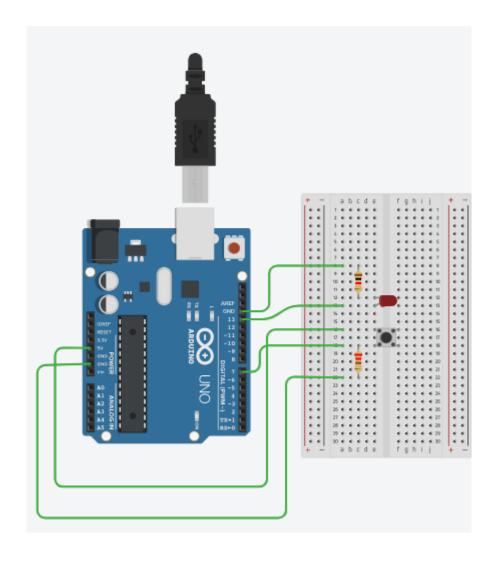


El led se enciende cuando se pulsa el interruptor:

```
const int LED = 13;
const int BOTON = 7;

void setup()
{
   pinMode(LED, OUTPUT);
   pinMode(BOTON, INPUT);
}

void loop()
{
   digitalWrite(LED, digitalRead(BOTON));
}
```

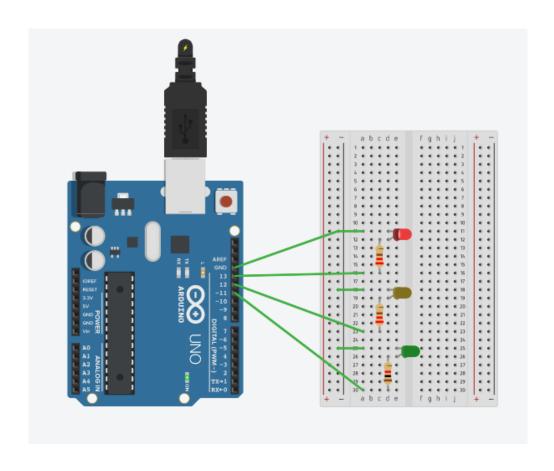


PRÁCTICA

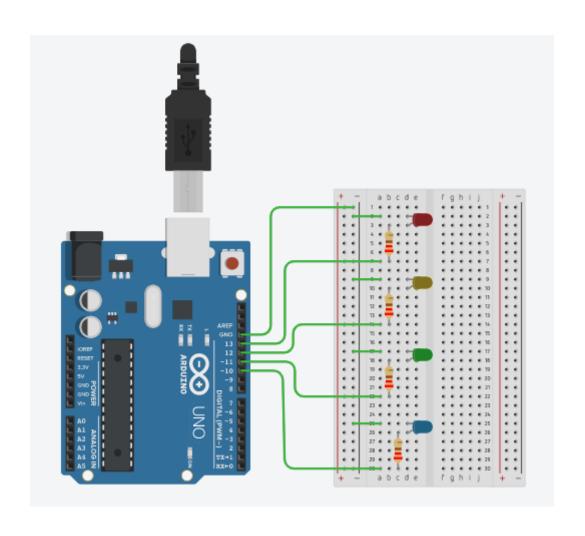
Parpadeo de led en el que se encienden y apagan alternativamente tres LEDS conectados a las salidas digitales 11, 12 y 13 a un intervalo de 1.5 segundos:

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

void loop()
{
  digitalWrite(13, HIGH);
  delay(1500); // Wait for 1500 millisecond(s)
  digitalWrite(13, LOW);
  digitalWrite(12, HIGH);
  delay(1500); // Wait for 1500 millisecond(s)
  digitalWrite(12, LOW);
  digitalWrite(11, HIGH);
  delay(1500); // Wait for 1500 millisecond(s)
  digitalWrite(11, LOW);
}
```



```
void setup()
pinMode(13, OUTPUT);
void loop()
 digitalWrite(13, HIGH);
 delay(500);
 digitalWrite(12, HIGH);
 delay(200);
 digitalWrite(13, LOW);
 delay(500);
 digitalWrite(11, HIGH);
 delay(200);
 digitalWrite(12, LOW);
 delay(500);
 digitalWrite(10, HIGH);
 delay(200);
 digitalWrite(11, LOW);
 delay(500);
 digitalWrite(11, HIGH);
 delay(200);
 digitalWrite(10, LOW);
 delay(500);
 digitalWrite(12, HIGH);
 delay(200);
 digitalWrite(11, LOW);
 delay(500);
 digitalWrite(13, HIGH);
 delay(200);
 digitalWrite(12, LOW);
```



Alarma por deteccion de presencia:

