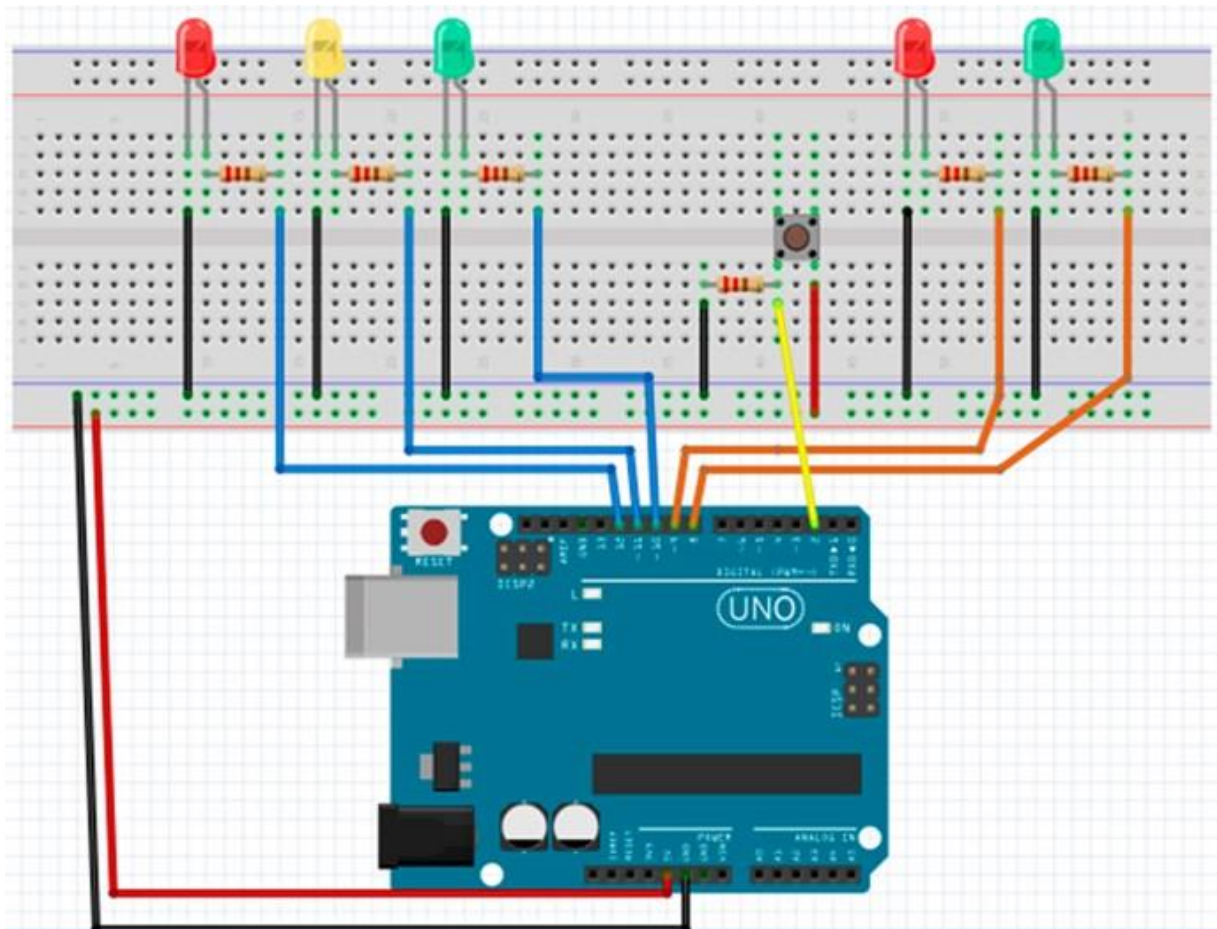


# EXPERIMENTO LUZ DE CONTROL DE TRAFICO CON PASE PEATONAL

## Materiales necesarios:

- 1 Arduino Uno R3
- 1 Protoboard
- 6 Resistencias 220 ohm 5%
- 2 Leds Rojos
- 2 Leds Verdes
- 1 Led Amarillo
- 1 Botón
- Varios Jumpers

## Grafico de Conexión:



## Código:

```
// Variables
int carRed = 8;
int carYellow = 11;
int carGreen = 9;
int pedRed = 12;
int pedGreen = 10;
int pedBtn = 2;
int val = 0;

void setup() {
  pinMode(pedRed, OUTPUT);
  pinMode(pedGreen, OUTPUT);
  pinMode(carRed, OUTPUT);
  pinMode(carYellow, OUTPUT);
  pinMode(carGreen, OUTPUT);
  pinMode(pedBtn, INPUT);
}

void loop(){
  digitalWrite (pedRed, HIGH);
  digitalWrite (carGreen, HIGH);
  val = digitalRead(pedBtn);

  if (val == HIGH) {
    delay(2000);
    digitalWrite(carGreen, LOW);
    digitalWrite(carYellow, HIGH);
    delay(3000);
    digitalWrite(carYellow, LOW);
    digitalWrite(carRed, HIGH);
    delay(3000);
    digitalWrite(pedGreen, HIGH);
    digitalWrite(pedRed, LOW);
    delay(10000);
    digitalWrite(pedGreen, LOW);

    digitalWrite(pedRed, HIGH);

    delay(3000);
    digitalWrite(carYellow, HIGH);
    delay(3000);
    digitalWrite(carYellow, LOW);
    digitalWrite(carRed, LOW);
  }
}
```