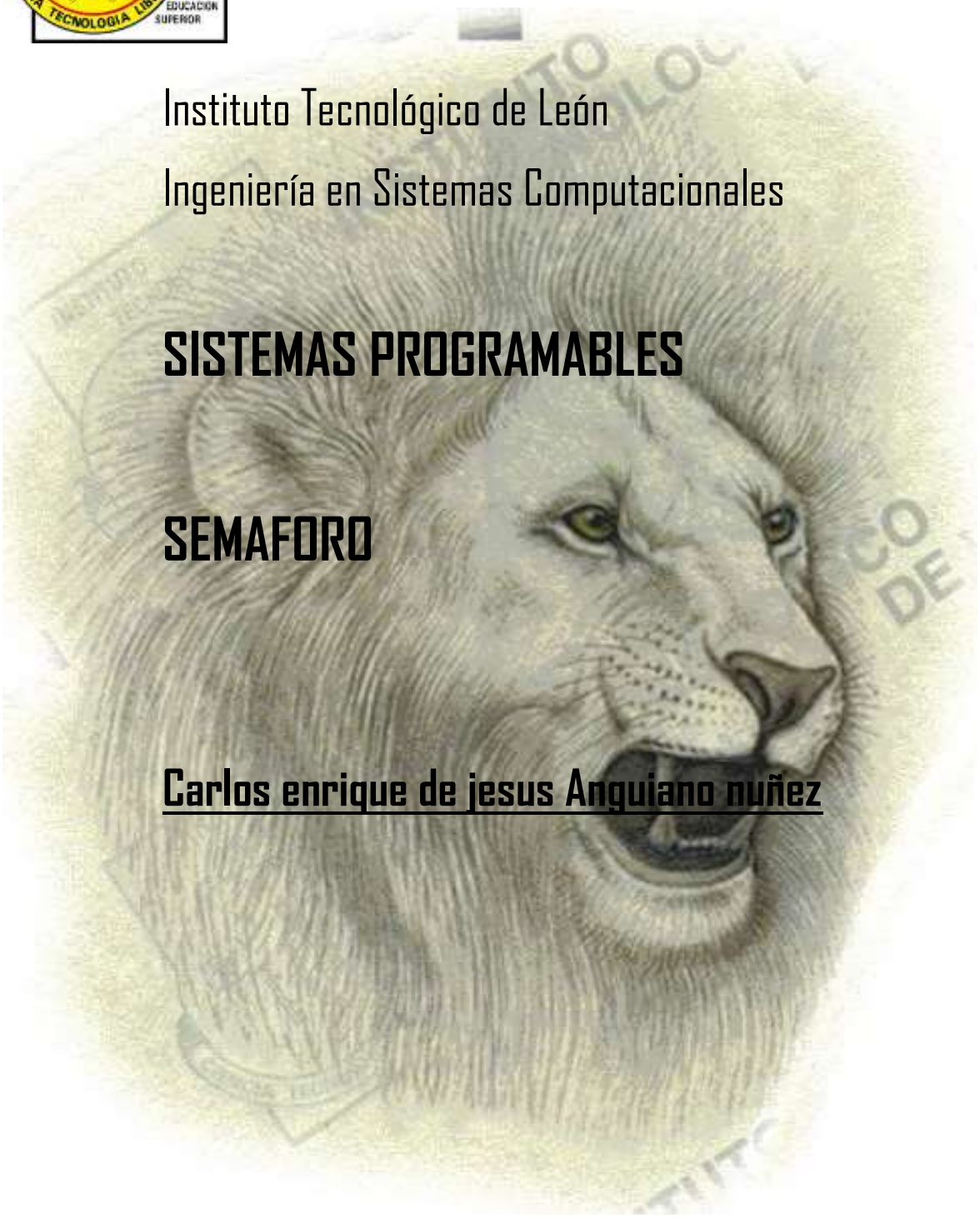


Instituto Tecnológico de León

Ingeniería en Sistemas Computacionales

SISTEMAS PROGRAMABLES

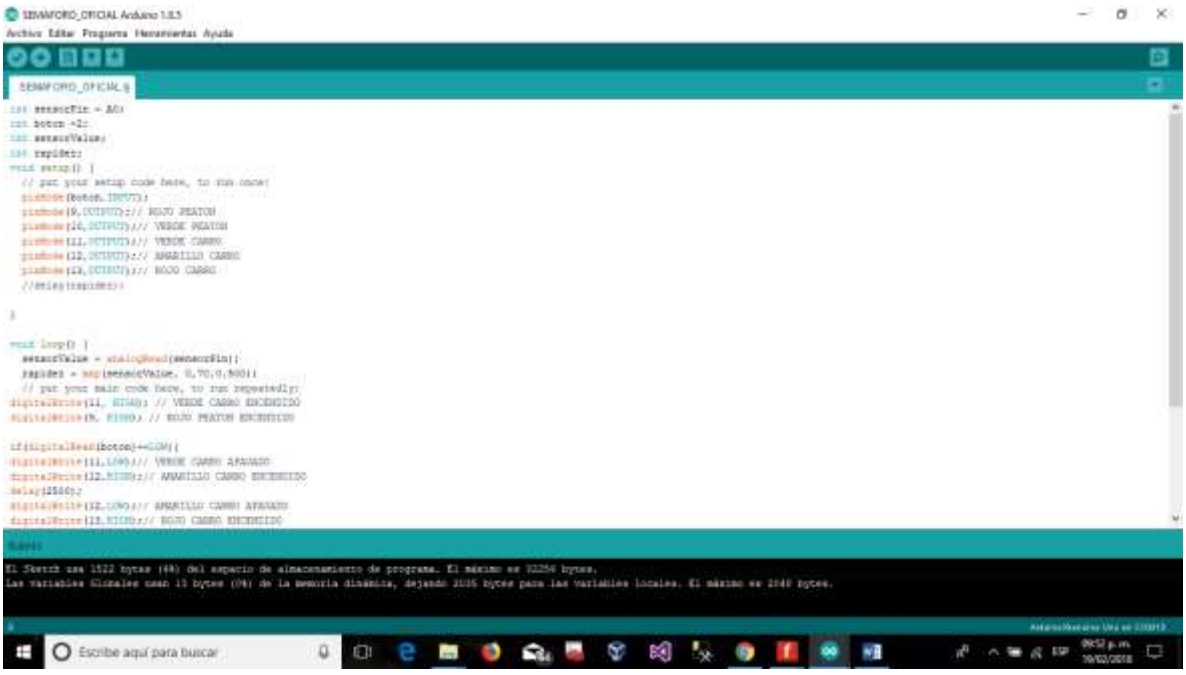
SEMAFORO

Carlos enrique de jesus Anguiano nuñez

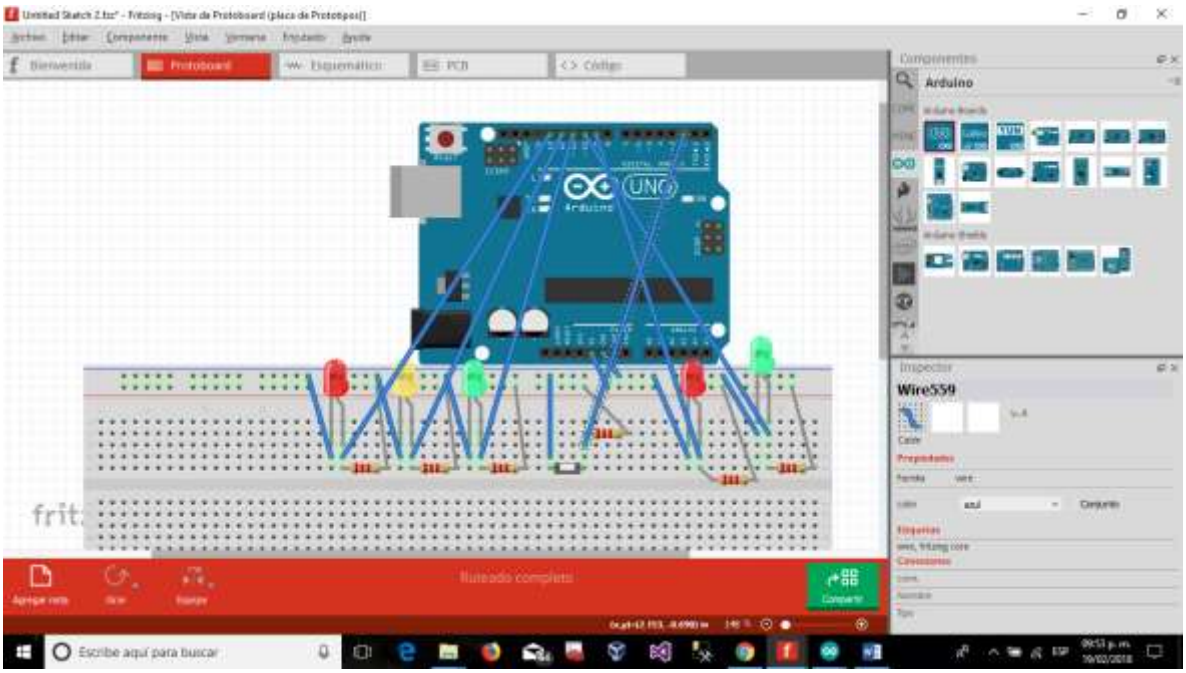
CODIGO

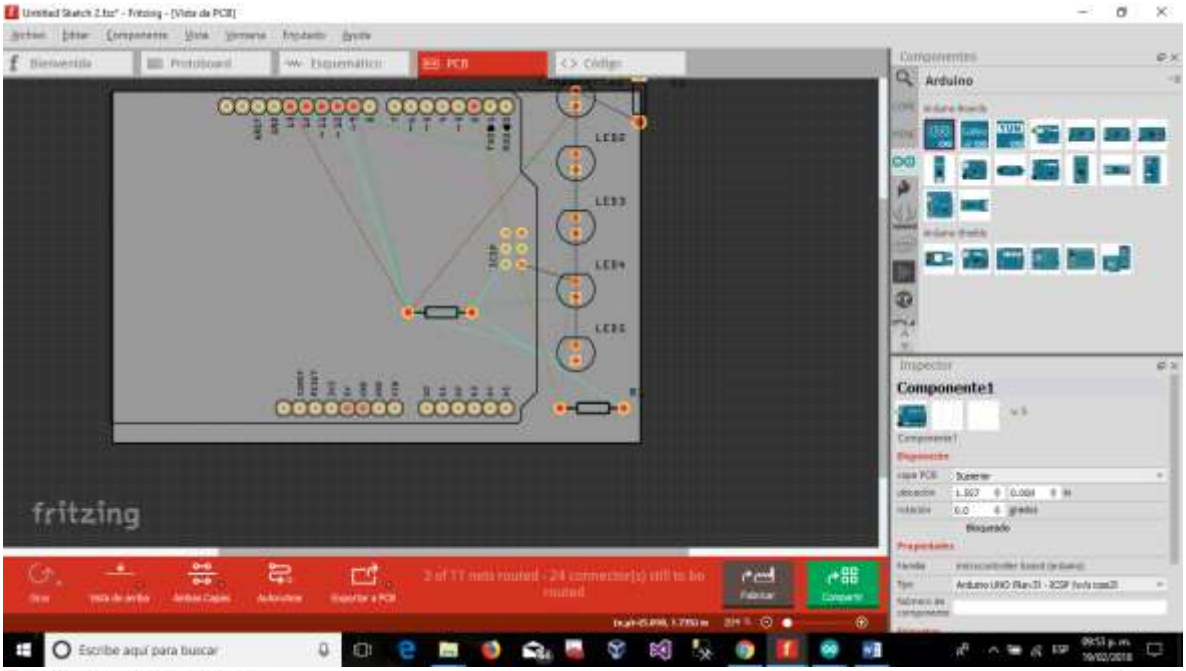
```
int sensorPin = A0;
int boton =2;
int sensorValue;
int rapidez;
void setup() {
  // put your setup code here, to run once:
  pinMode(boton,INPUT);
  pinMode(9,OUTPUT);// ROJO PEATON
  pinMode(10,OUTPUT);// VERDE PEATON
  pinMode(11,OUTPUT);// VERDE CARRO
  pinMode(12,OUTPUT);// AMARILLO CARRO
  pinMode(13,OUTPUT);// ROJO CARRO
  //delay(rapidez);

}

void loop() {
  sensorValue = analogRead(sensorPin);
  rapidez = map(sensorValue, 0,70,0,500);
  // put your main code here, to run repeatedly:
digitalWrite(11, HIGH); // VERDE CARRO ENCENDIDO
digitalWrite(9, HIGH); // ROJO PEATON ENCENDIDO

if(digitalRead(boton)==LOW){
```

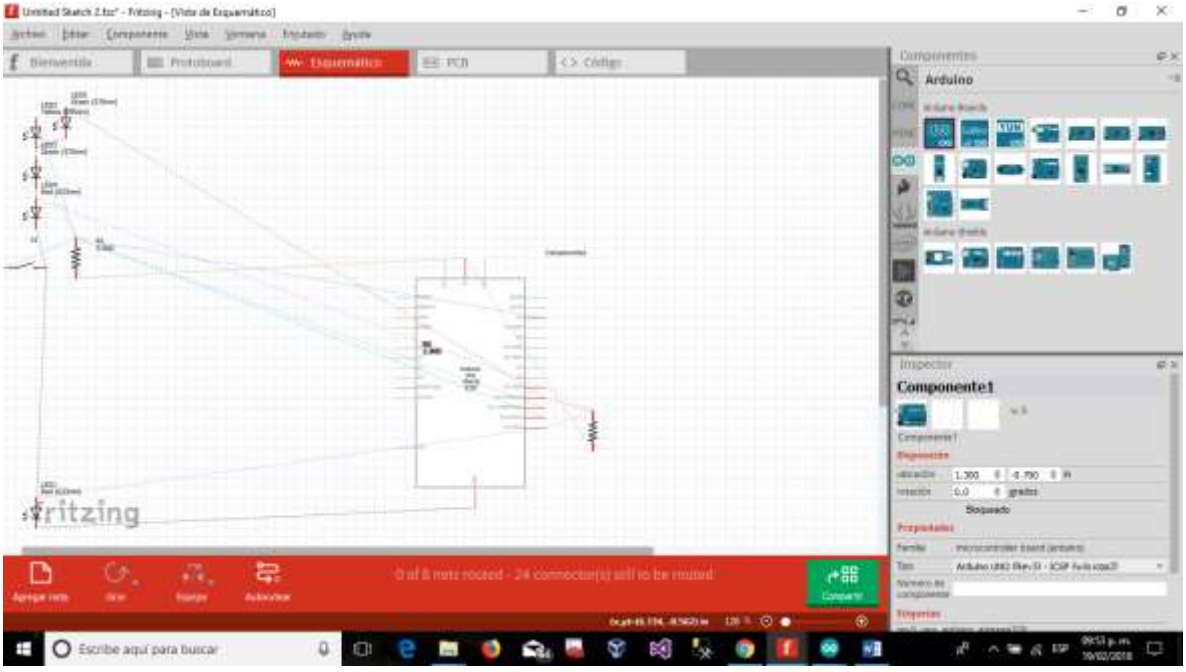
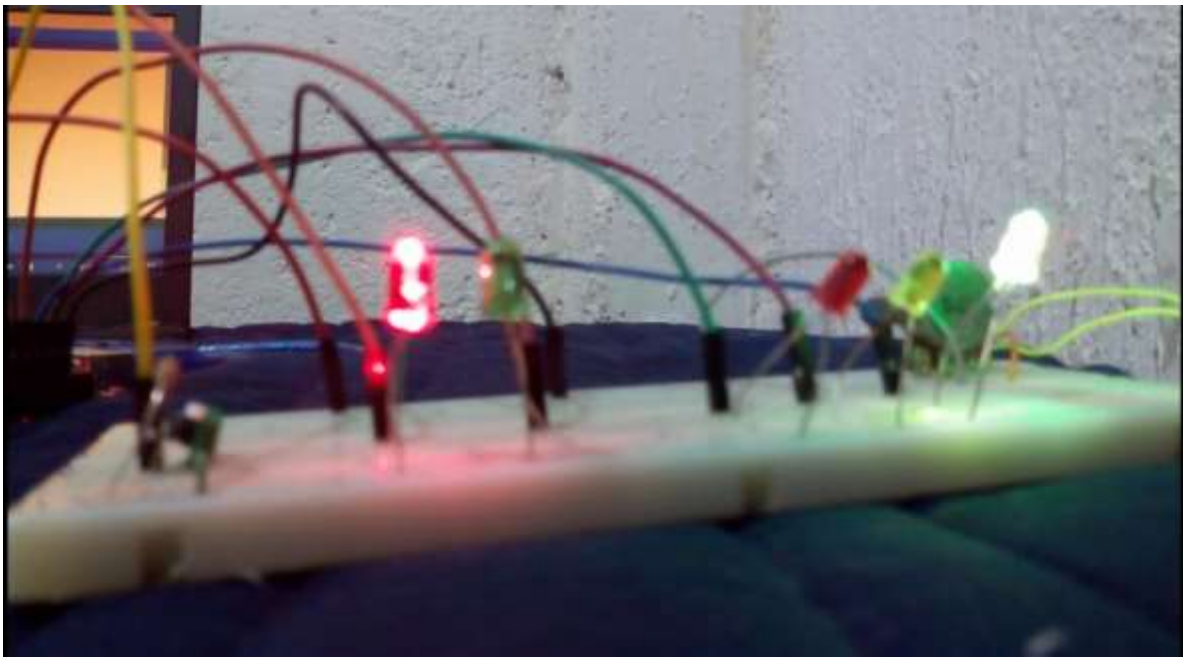
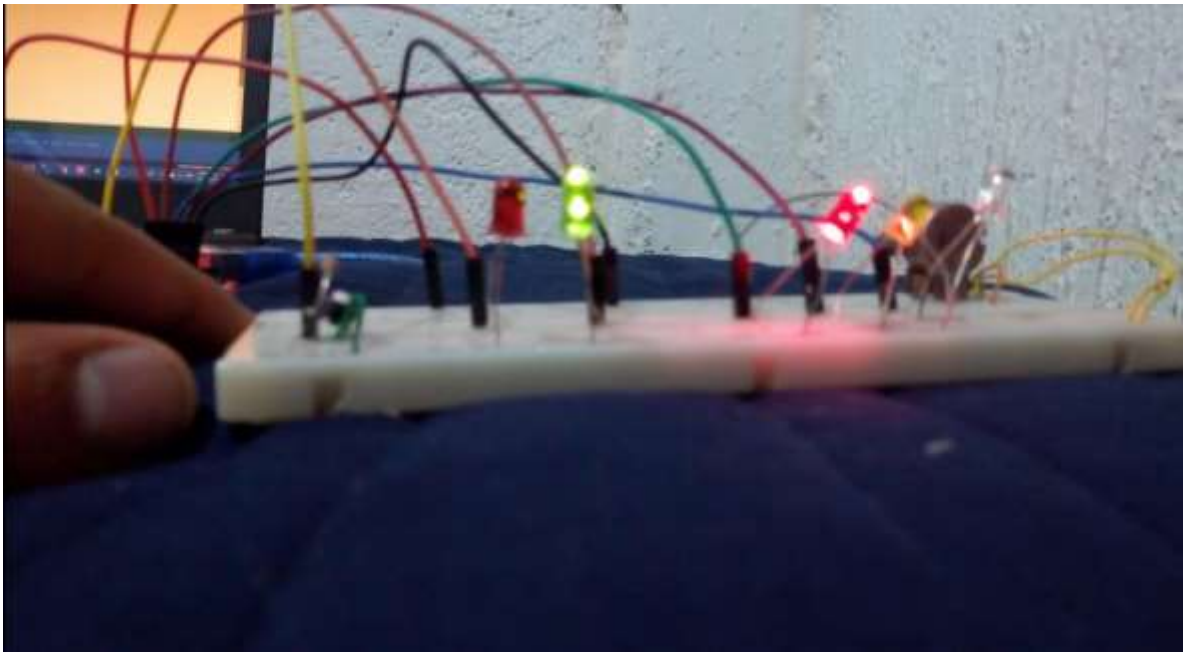
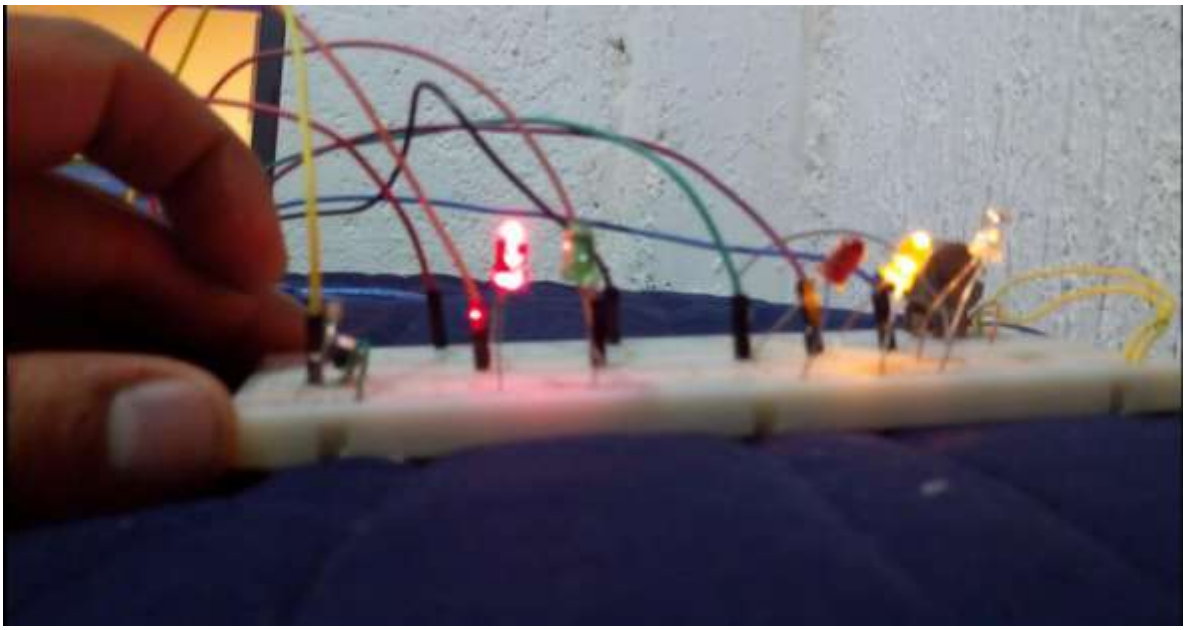
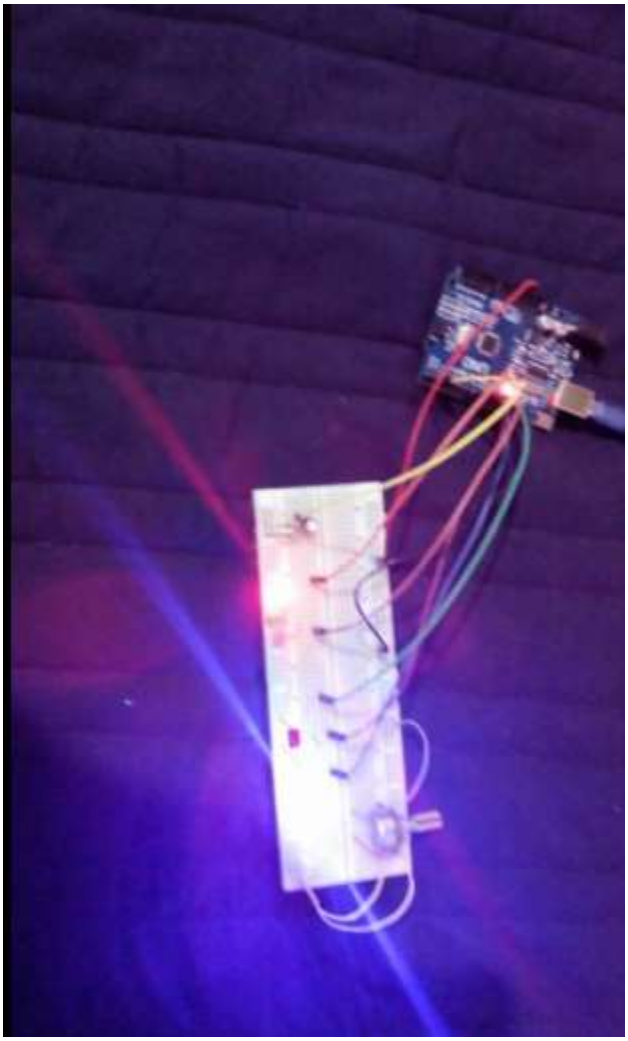
```
digitalWrite(11,LOW);// VERDE CARRO APAGADO
digitalWrite(12,HIGH);// AMARILLO CARRO ENCENDIDO
delay(2500);
digitalWrite(12,LOW);// AMARILLO CARRO APAGADO
digitalWrite(13,HIGH);// ROJO CARRO ENCENDIDO
digitalWrite(9,LOW);// ROJO PEATON APAGADO
digitalWrite(10,HIGH);// VERDE PEATON ENCENDIDO
delay(8000);
//delay(rapidez);
digitalWrite(10,LOW);// VERDE PEATON APAGADO
digitalWrite(13,LOW);// ROJO CARRO APAGADO

}
```



DIAGRAMA


Bienvenida
Protoboard
Esquemático
PCB
Código
Componentes
Arduino
Inspector
Wire559
Ruteado completo
Escribe aquí para buscar


Componentes
Arduino
Inspector
Componente1
fritzing
Escribe aquí para buscar


Componentes
Arduino
Inspector
Componente1
fritzing
Escribe aquí para buscar

EVIDENCIAS