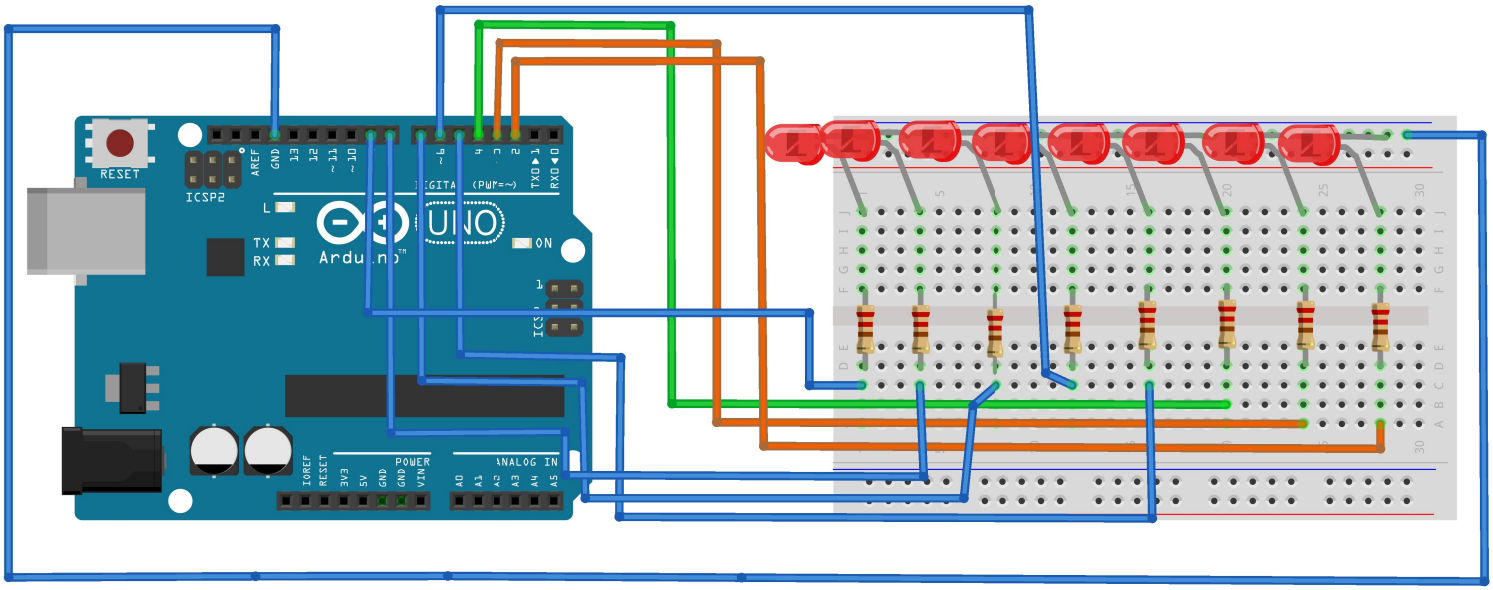
PROYECTO 001 - PROGRAMACION C++ - SEGUN. BIM.

NOMBRES Y APELLIDOS: _____ GRADO Y SECCION: _____

- Bucle for (int = 0; i < 13; i++) { .....

.....}



Realizar un programa para Arduino UNO, y que controle 08 Led's con lasecuencia que se observa en la tabla adjunta. Cada cambio de secuencia debe contar con untiempo diferente en milisegundos.

```
int led7=9;
int led6=8;
int led5=7;
int led4=6;
int led3=5;
int led2=4;
int led1=3;
int led0=2;

int tiempo1=150;
int tiempo2=80;
int tiempo3=250;
int tiempo4=100;

void setup() {

pinMode (led7, OUTPUT);
pinMode (led6, OUTPUT);
pinMode (led5, OUTPUT);
pinMode (led4, OUTPUT);
pinMode (led3, OUTPUT);
pinMode (led2, OUTPUT);
pinMode (led1, OUTPUT);
pinMode (led0, OUTPUT);
}

void loop() {

for (int s1=0; s1<13; s1++) {
//01
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
```

Secuencia de Leds.

Pin 9	Pin8	Pin7	Pin6	Pin5	Pin4	Pin3	Pin2
0	0	0	0	0	0	0	1
0	0	0	0	0	0	1	0
0	0	0	0	0	1	0	0
0	0	0	0	1	0	0	0
0	0	0	1	0	0	0	0
0	0	1	0	0	0	0	0
0	1	0	0	0	0	0	0
1	0	0	0	0	0	0	0

Repite 12 veces

Pin 9	Pin8	Pin7	Pin6	Pin5	Pin4	Pin3	Pin2
1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0

Repite 30 veces

Pin 9	Pin8	Pin7	Pin6	Pin5	Pin4	Pin3	Pin2
1	0	0	0	0	0	0	1
0	1	0	0	0	0	1	0
0	0	1	0	0	1	0	0
0	0	0	1	1	0	0	0
0	0	0	1	1	0	0	0
0	0	1	0	0	1	0	0

```
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, HIGH);
delay(tiempo1);
//02
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
digitalWrite (led2, LOW);
digitalWrite (led1, HIGH);
digitalWrite (led0, LOW);
delay(tiempo1);
//03
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
digitalWrite (led2, HIGH);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo1);
//04
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, HIGH);
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo1);
//05
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, HIGH);
digitalWrite (led3, LOW);
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo1);
//06
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, HIGH);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo1);
//07
digitalWrite (led7, LOW);
digitalWrite (led6, HIGH);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo1);
```

0	1	0	0	0	0	1	0
1	0	0	0	0	0	0	1

Repite 12 veces

Pin 9	Pin8	Pin7	Pin6	Pin5	Pin4	Pin3	Pin2
0	0	0	0	1	1	1	1
1	1	1	1	0	0	0	0

Repite 30 veces

```
//08
digitalWrite (led7, HIGH);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo1);
}


for (int s2=0; s2<31; s2++) {

//s2-01
digitalWrite (led7, HIGH);
digitalWrite (led6, HIGH);
digitalWrite (led5, HIGH);
digitalWrite (led4, HIGH);
digitalWrite (led3, HIGH);
digitalWrite (led2, HIGH);
digitalWrite (led1, HIGH);
digitalWrite (led0, HIGH);
delay(tiempo2);
//s2-02
digitalWrite (led7, LOW);
digitalWrite (led6, LOW);
digitalWrite (led5, LOW);
digitalWrite (led4, LOW);
digitalWrite (led3, LOW);
digitalWrite (led2, LOW);
digitalWrite (led1, LOW);
digitalWrite (led0, LOW);
delay(tiempo2);
}

for(int s3=0 .....
   .
   .
   .


}
```