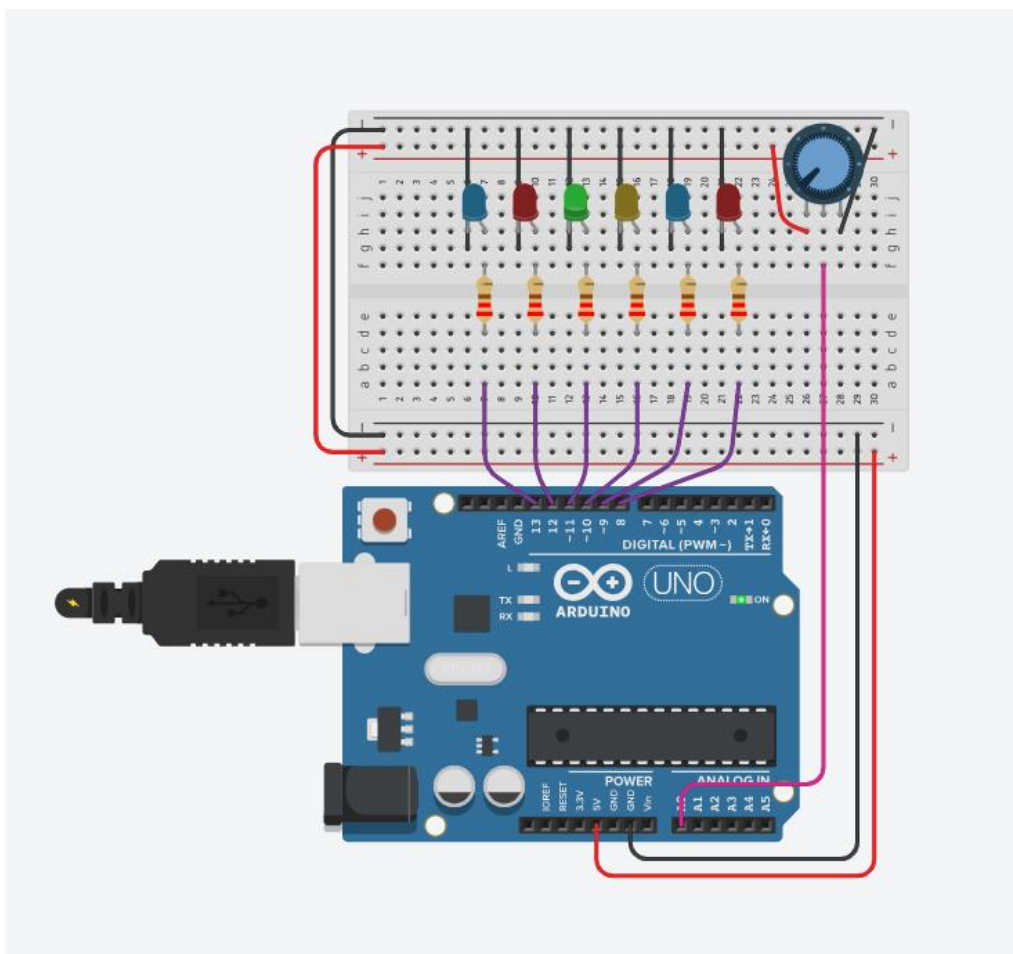# Tarea Lógica Digital

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SOFTWARE

```
1   // Tarea Bulce con Potenciometro
2
3   // Inicializacion de variables
4
5   int led1 = 13;
6   int led2 = 12;
7   int led3 = 11;
8   int led4 = 10;
9   int led5 = 9;
10  int led6 = 8;
11  int potPin = 0;
12
13  void setup()
14
15  {
16    pinMode(led1, OUTPUT);
17    pinMode(led2, OUTPUT);
18    pinMode(led3, OUTPUT);
19    pinMode(led4, OUTPUT);
20    pinMode(led5, OUTPUT);
21    pinMode(led6, OUTPUT);
22    Serial.begin(9600);
23
24  }
25
26  void loop()
27
28  {
29
30    Serial.println(delayValue());
31
32    // Bucle de icremento del brillo
33
34    for(int brillo = 0; brillo <= 255; brillo++){
35
36      analogWrite(led1, brillo);
37      delay(delayValue());
38      analogWrite(led1,LOW);
```

```
39
40        analogWrite(led2, brillo);
41        delay(delayValue());
42        analogWrite(led2,LOW);
43
44        analogWrite(led3, brillo);
45        delay(delayValue());
46        analogWrite(led3,LOW);
47
48        analogWrite(led4, brillo);
49        delay(delayValue());
50        analogWrite(led4,LOW);
51
52        analogWrite(led5, brillo);
53        delay(delayValue());
54        analogWrite(led5,LOW);
55
56        analogWrite(led6, brillo);
57        delay(delayValue());
58        analogWrite(led6,LOW);
59
60        analogWrite(led6, brillo);
61        delay(delayValue());
62        analogWrite(led6,LOW);
63
64        analogWrite(led5, brillo);
65        delay(delayValue());
66        analogWrite(led5,LOW);
67
68        analogWrite(led4, brillo);
69        delay(delayValue());
70        analogWrite(led4,LOW);
71
72        analogWrite(led3, brillo);
73        delay(delayValue());
74        analogWrite(led3,LOW);
75
76        analogWrite(led2, brillo);
77        delay(delayValue());
78        analogWrite(led2,LOW);
79
```

```
75
76        analogWrite(led2, brillo);
77        delay(delayValue());
78        analogWrite(led2,LOW);
79
80        analogWrite(led1, brillo);
81        delay(delayValue());
82        analogWrite(led1,LOW);
83
84    }
85
86  }
87
88  // Funcion Calculo del Retardo
89
90  int delayValue(){
91
92    int v;
93    v = analogRead(potPin);
94    v = v/2;
95
96    return v;
97
98
99  }
```

Serial Monitor