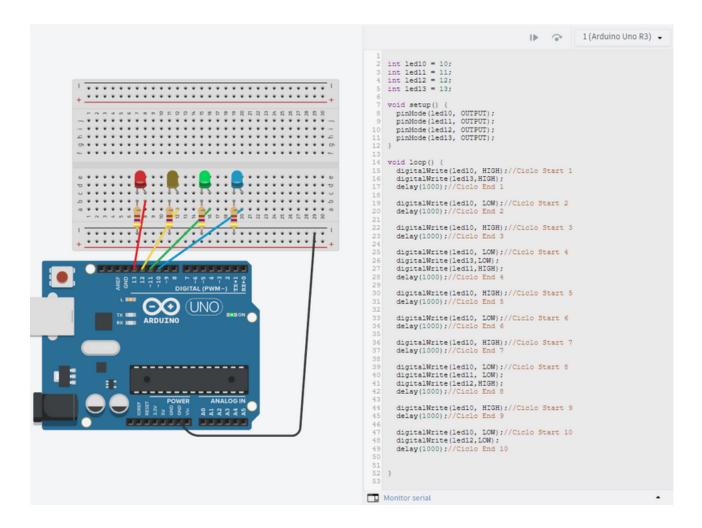
## AC II - Exercício Prático 03

Vitor Lucio - 810862

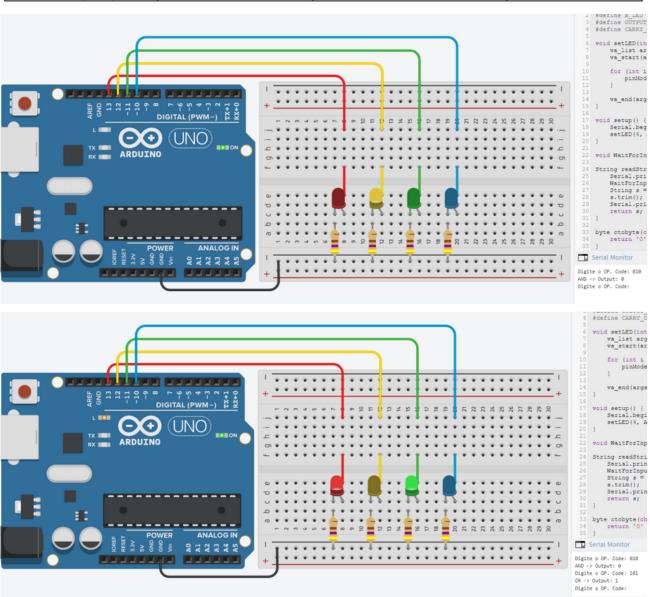
## Exercício 1

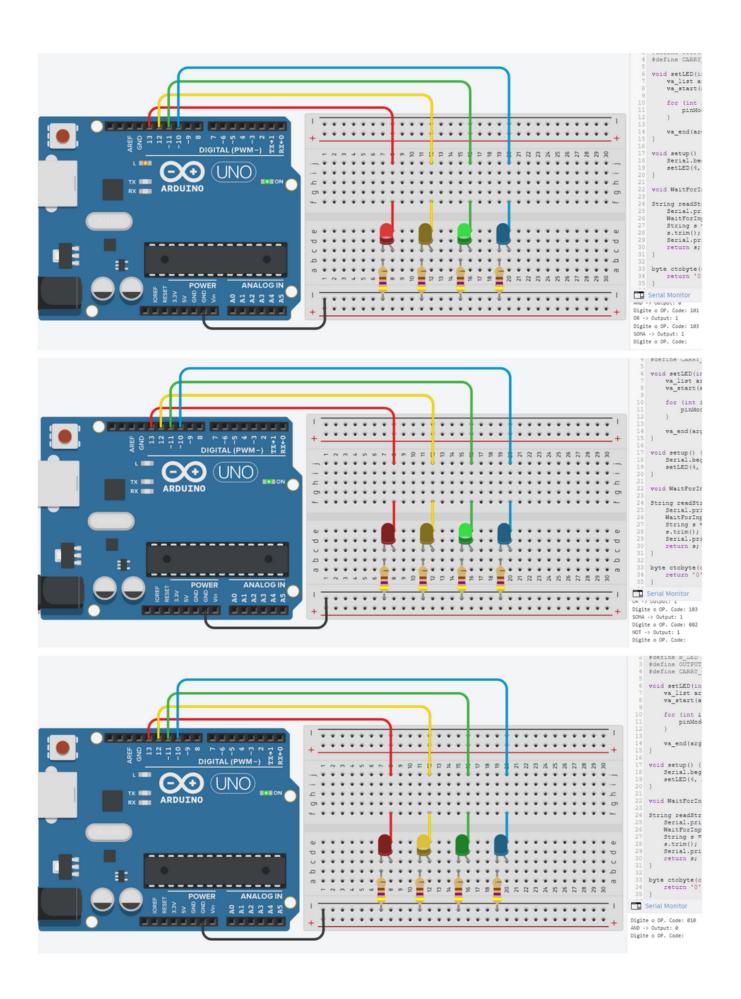
Print do Semáforo (Tinkercad)



## Exercício 2

Instrução	Binário	Valor em Hexa	Resultado em
realizada	(A,B,Op.code)	$(0x \ldots)$	binário
AND(A,B)	0 1 00	0x4	0
OR(A,B)	1 0 01	0x9	1
SOMA(A,B)	1 0 11	0xB	1
NOT(A)	0 0 10	0x2	1
AND(B,A)	0 1 00	0x4	0





```
void setup() {
           Serial.begin(9600);
21
          setLED(4, A_LED, B_LED, OUTPUT_LED, CARRY_OUT_LED);
String s = readString("Digite o OP. Code: ");
          byte A = setBit(ctobyte(s[0]));
          byte B = setBit(ctobyte(s[1]));
          byte code = setOpCode(ctobyte(s[2]));
          byte carryOut = 0b000000000;
34
          byte output;
          switch (code) {
          case 0:
              Serial.print("AND -> ");
              output = A & B;
              break;
          case 1:
              Serial.print("OR -> ");
              output = A | B;
              break;
          case 2:
              Serial.print("NOT -> ");
              output = !A;
              break;
          case 3:
              Serial.print("SOMA -> ");
              output = A + B;
              carryOut = bitRead(output, 1);
              break;
          output = setBit(output);
          Serial.print("Output: ");
          Serial.println(output);
          setOutput(A, B, output, carryOut);
```