Exercício Prático 3:

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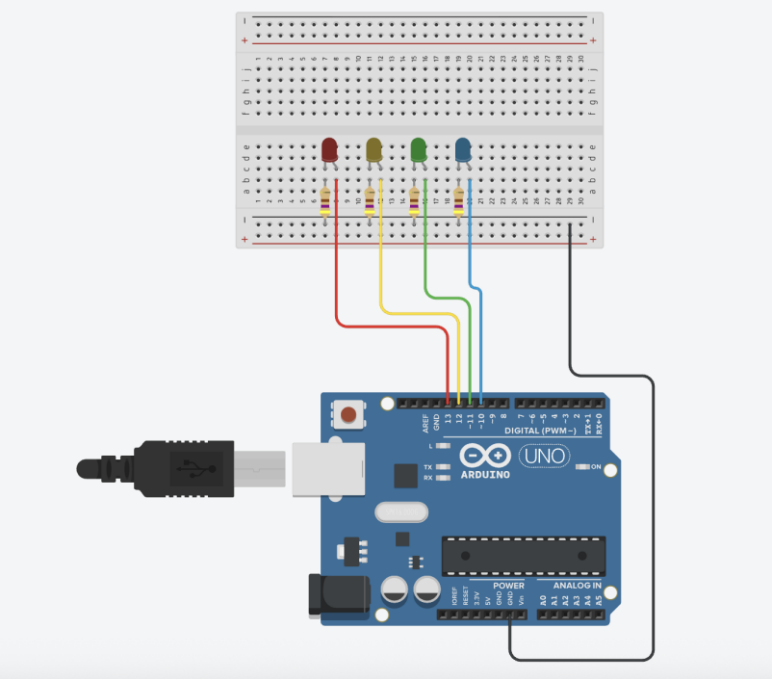
Exercício 1:

Projeto:



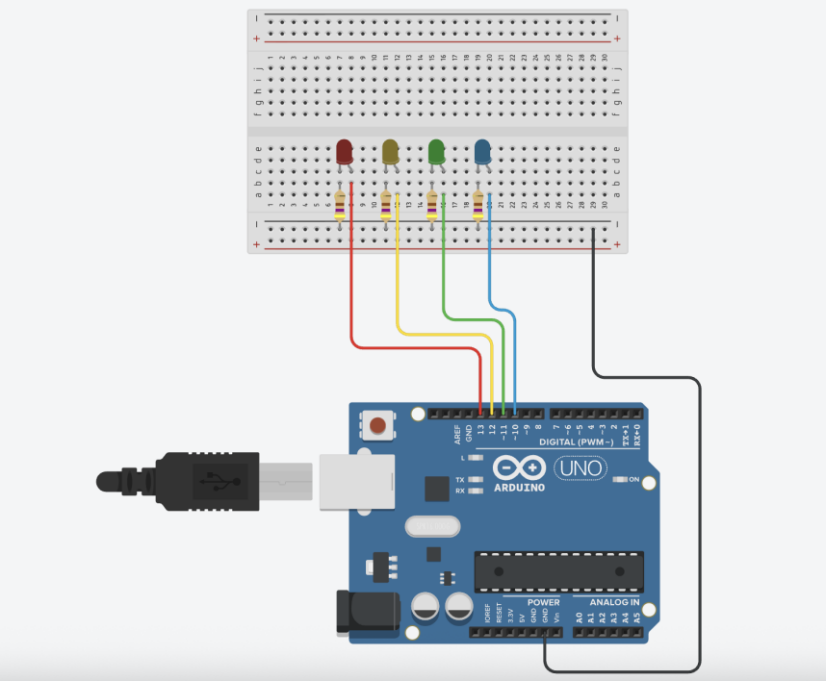
Código:

```
int led0 = 10;
int led1 = 11;
int led2 = 12;
int led3 = 13;

void setup(){
    Serial.begin(9600);
    pinMode(led0,OUTPUT);
    pinMode(led1,OUTPUT);
    pinMode(led2,OUTPUT);
    pinMode(led3,OUTPUT);
}

void AcendeAzul(){
    digitalWrite(led0, HIGH);
    delay(500);
    digitalWrite(led0, LOW);
    delay(500);
}
```

```
void loop(){
    int count = 0;
    for(int i = 0; i < 3; i++){
      digitalWrite(led1, LOW);
      digitalWrite(led2, LOW);
      digitalWrite(led3, HIGH);
      AcendeAzul();
    }

    for(int i = 0; i < 4; i++){
      digitalWrite(led1, HIGH);
      digitalWrite(led2, LOW);
      digitalWrite(led3, LOW);
      AcendeAzul();
    }

    for(int i = 0; i < 2; i++){
      digitalWrite(led1, LOW);
      digitalWrite(led2, HIGH);
      digitalWrite(led3, LOW);
      AcendeAzul();
    }
}
```

Exercício 2:

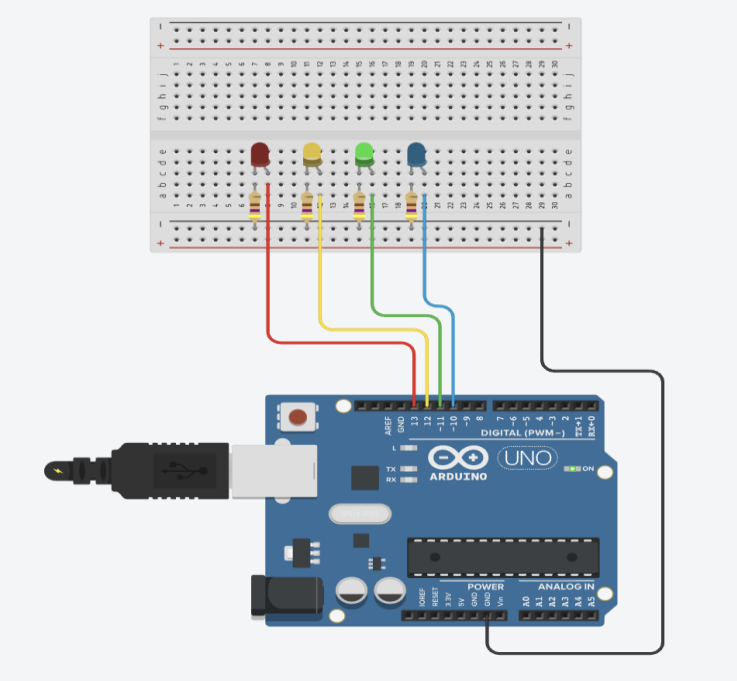
Projeto:



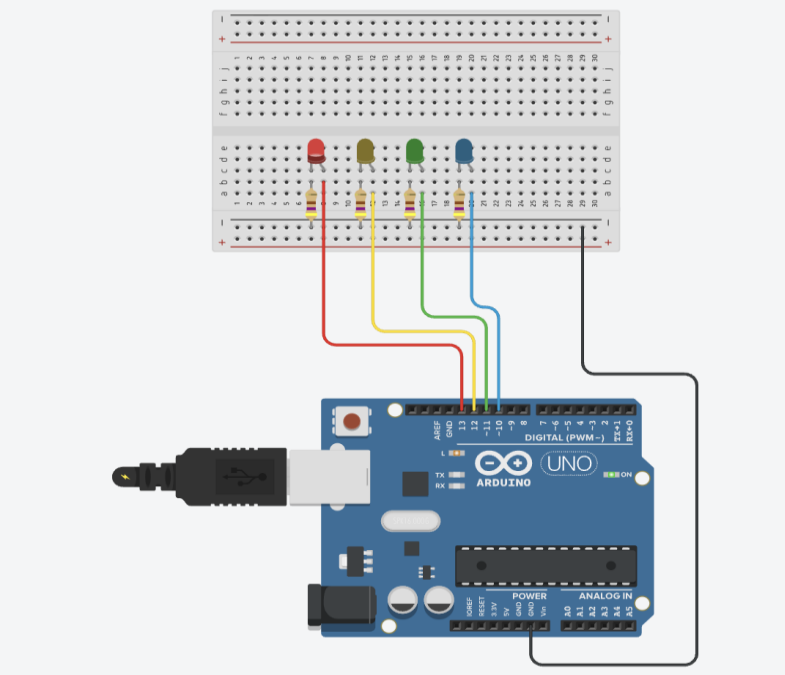
Projeto:

```
int led1 = 13;
int led2 = 12;
int ledSaida = 11;
int ledVai1 = 10;

void setup(){
    Serial.begin(9600);
    pinMode(led1,OUTPUT);
    pinMode(led2,OUTPUT);
    pinMode(ledSaida,OUTPUT);
    pinMode(ledVai1,OUTPUT);
}

void loop(){
    if(Serial.available() >= 3){
        char a0 = Serial.read();
        char b0 = Serial.read();
        char op0 = Serial.read();

        int a1 = a0 - '0';
        int b1 = b0 - '0';
        int op1 = op0 - '0';
        int Saida = 0;
        int Vai1 = 0;

        switch(op1){
            case 0:
                Saida = a1 & b1;
                Vai1 = 0;
                break;
            case 1:
                Saida = a1 | b1;
                Vai1 = 0;
                break;
            case 2:
                Saida = !a1;
                Vai1 = 0;
                break;
            case 3:
                Saida = a1 ^ b1;
                Vai1 = a1 & b1;
                break;
            default:
                Saida = 0;
                Vai1 = 0;
                break;
        }

        digitalWrite(led1, a1);
        digitalWrite(led2, b1);
        digitalWrite(ledSaida, Saida);
        digitalWrite(ledVai1, Vai1);
    }
}
```

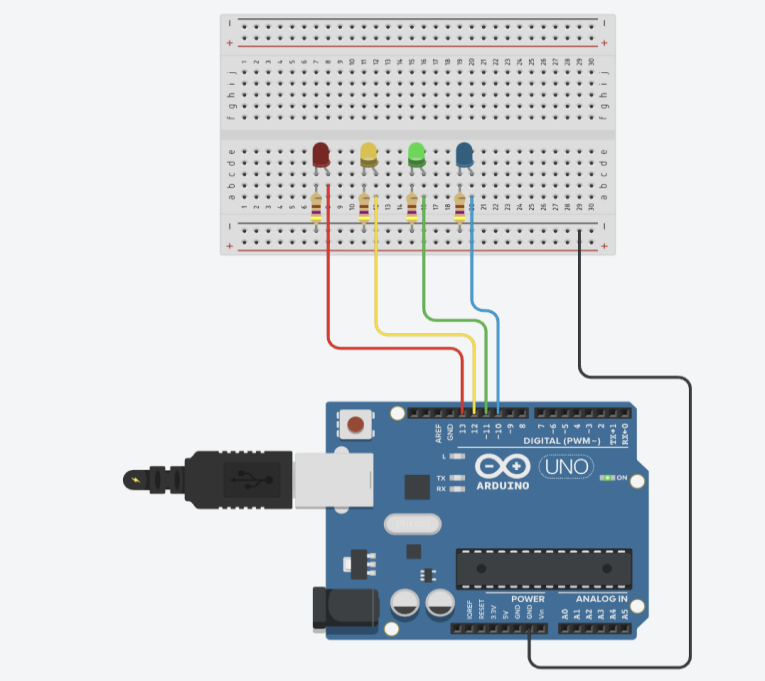
010:


DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN

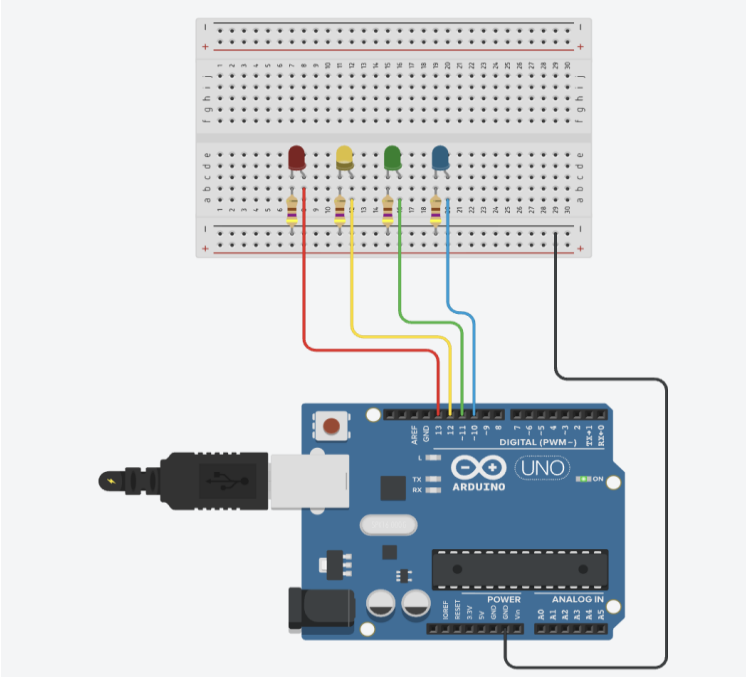
101:


DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN

103:


DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN

002:


DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN

110: