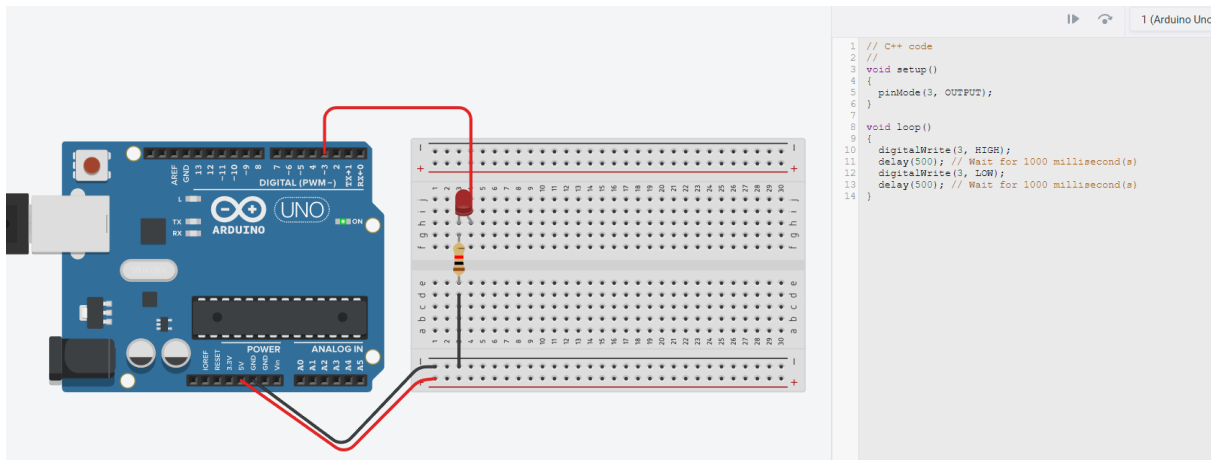# Exercícios Tinkercad – 20/03


```cpp
// C++ code
//
void setup()
{
  pinMode(3, OUTPUT);
}

void loop()
{
  digitalWrite(3, HIGH);
  delay(500); // Wait for 1000 millisecond(s)
  digitalWrite(3, LOW);
  delay(500); // Wait for 1000 millisecond(s)
}
```
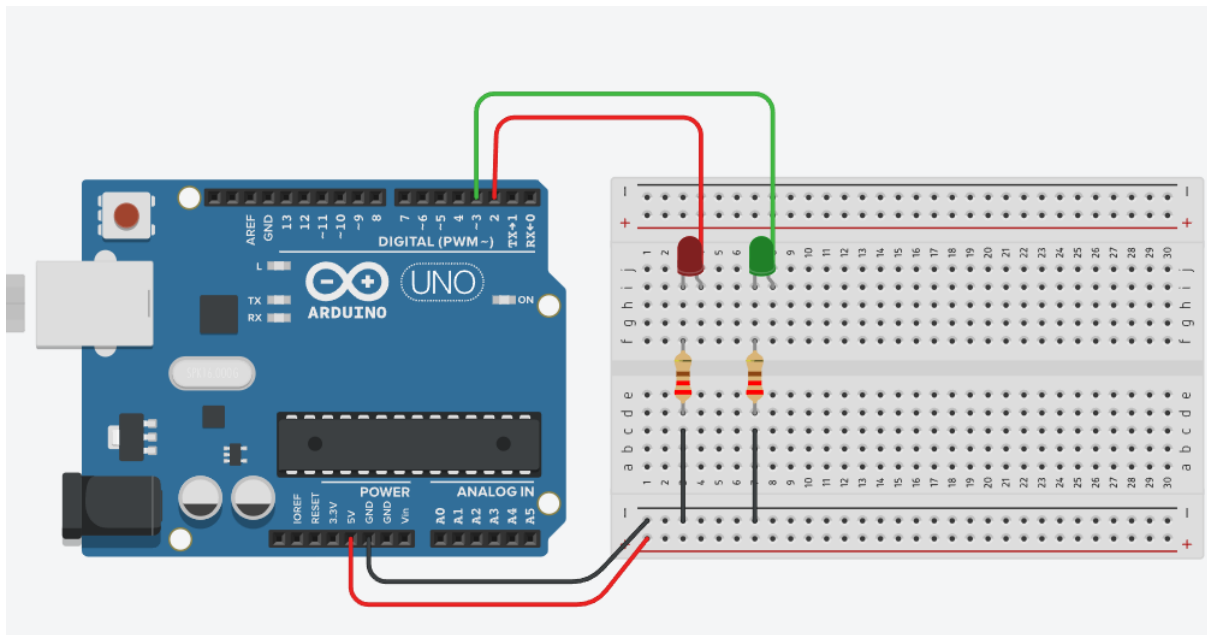
Código:
```cpp
void setup()
{
  pinMode(3, OUTPUT);
}

void loop()
{
  digitalWrite(3, HIGH);
  delay(500); // Wait for 500 millisecond(s)
  digitalWrite(3, LOW);
  delay(500); // Wait for 500 millisecond(s)
}
```

2.


```cpp
// C++ code
//
void setup()
{
  pinMode(3, OUTPUT);
  pinMode(2, OUTPUT);
}

void loop()
{
  digitalWrite(2, HIGH);
  digitalWrite(3, LOW);
  delay(1000);
  digitalWrite(3, HIGH);
  digitalWrite(2, LOW);
  delay(1000);

}
```
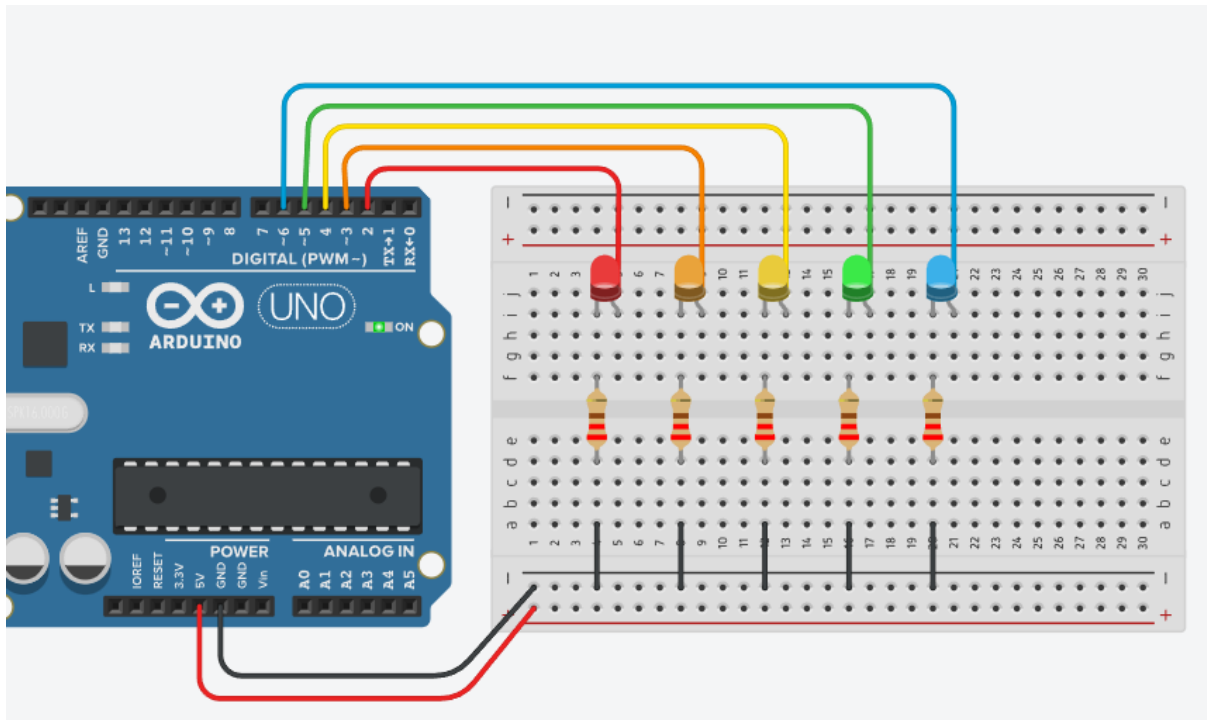
Código:

```cpp
void setup()
{
  pinMode(3, OUTPUT);
  pinMode(2, OUTPUT);
}

void loop()
{
  digitalWrite(2, HIGH);
  digitalWrite(3, LOW);
  delay(1000);
```

```
digitalWrite(3, HIGH);
digitalWrite(2, LOW);
delay(1000);

}
```

3.

```
// C++ code
//
void setup()
{
  pinMode(2, OUTPUT);
  pinMode(3, OUTPUT);
  pinMode(4, OUTPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
}

void loop()
{
  digitalWrite(2, HIGH);
  digitalWrite(3, HIGH);
  digitalWrite(4, HIGH);
  digitalWrite(5, HIGH);
  digitalWrite(6, HIGH);
  delay(2000);
  digitalWrite(2, LOW);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
  digitalWrite(5, LOW);
  digitalWrite(6, LOW);
  delay(2000);
}
```
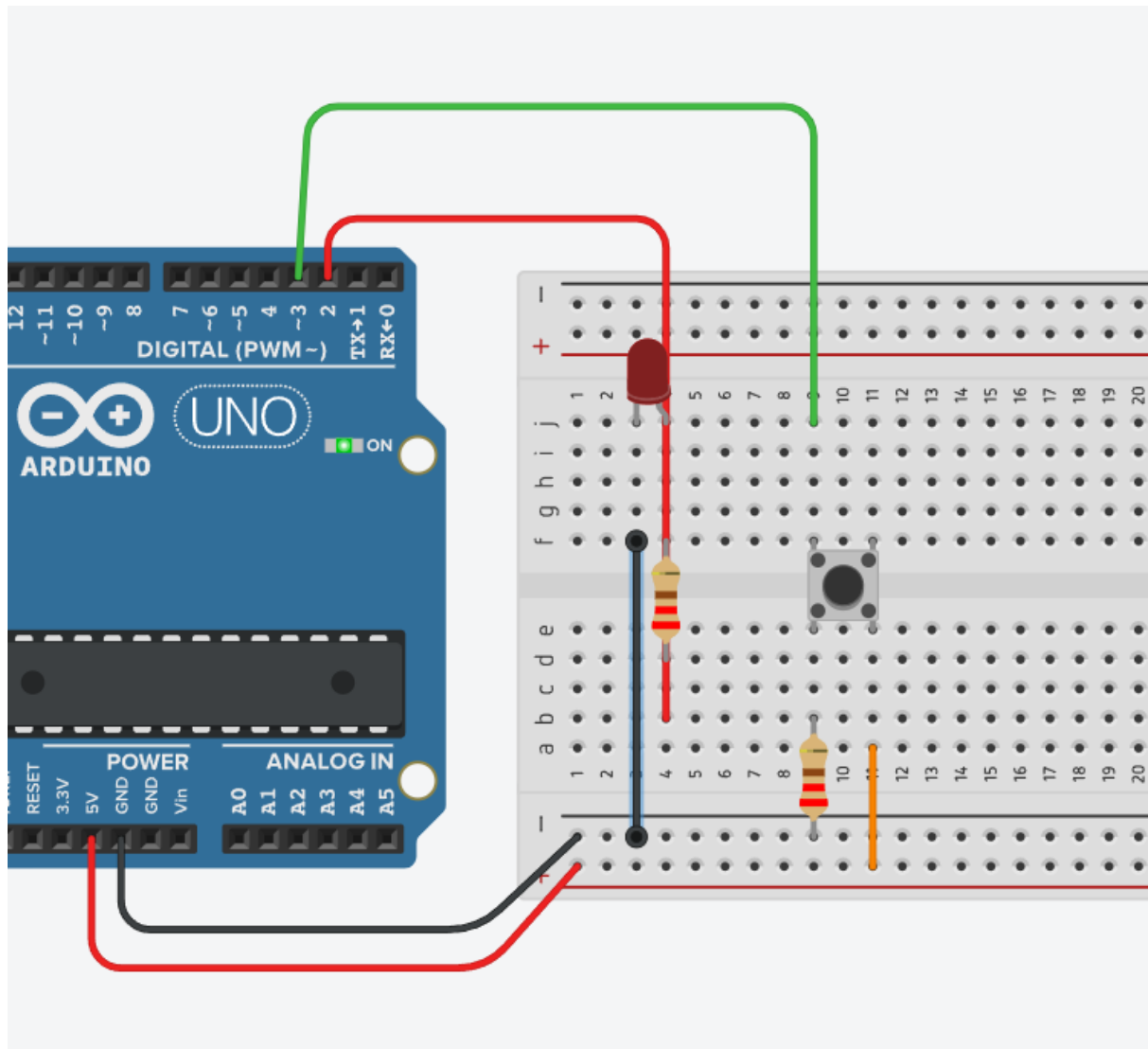
Código:
// C++ code
//
void setup()
{
  pinMode(2, OUTPUT);
  pinMode(3, OUTPUT);
  pinMode(4, OUTPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
}

void loop()
{
  digitalWrite(2, HIGH);
  digitalWrite(3, HIGH);
  digitalWrite(4, HIGH);
  digitalWrite(5, HIGH);
  digitalWrite(6, HIGH);
  delay(2000);
  digitalWrite(2, LOW);
  digitalWrite(3, LOW);
  digitalWrite(4, LOW);
  digitalWrite(5, LOW);

```
  digitalWrite(6, LOW);
  delay(2000);
}
```

//OBS: fiquei com dúvida se seria um intervalo de 2 segundos entre acender cada led ou intervalo de 2s entre acender todos e apagar todos no final

4.


```
void setup()
{
  pinMode(3, INPUT);
  pinMode(2, OUTPUT);
}

void loop()
{
 int var = digitalRead(3);
 digitalWrite(2, var);
 delay(10);
}
```

Código:

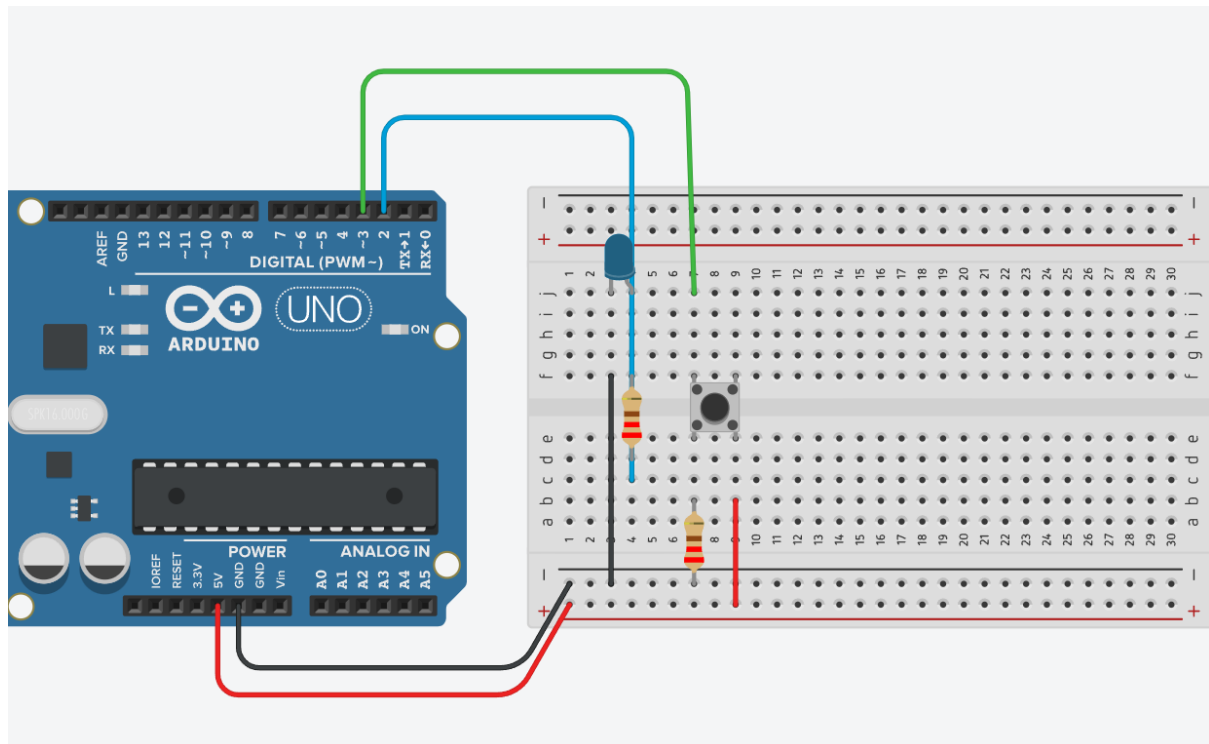void setup()
{
  pinMode(3, INPUT);

```
  pinMode(2, OUTPUT);
}

void loop()
{
 int var = digitalRead(3);
 digitalWrite(2, var);
 delay(10);
}
```

5.


```
 1  int onoff = 0;
 2
 3  void setup()
 4  {
 5    pinMode(3, INPUT);
 6    pinMode(2, OUTPUT);
 7  }
 8
 9  void loop(){
10    onoff = digitalRead(3);
11
12    if (onoff == HIGH) {
13      digitalWrite(2, LOW);
14    } else {
15     digitalWrite(2, HIGH);
16    }
17  }
```

Código:

```
int onoff = 0;

void setup()
{
  pinMode(3, INPUT);
  pinMode(2, OUTPUT);
}

void loop(){
  onoff = digitalRead(3);

  if (onoff == HIGH) {
    digitalWrite(2, LOW);
  } else {
   digitalWrite(2, HIGH);
  }
}
```

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