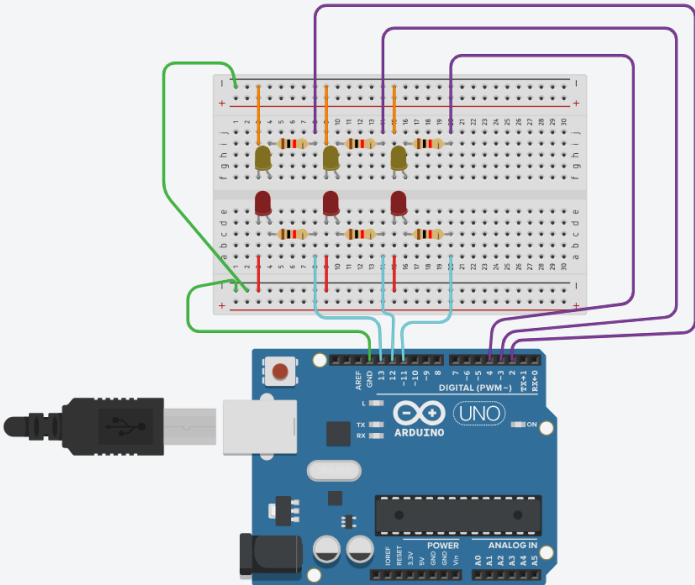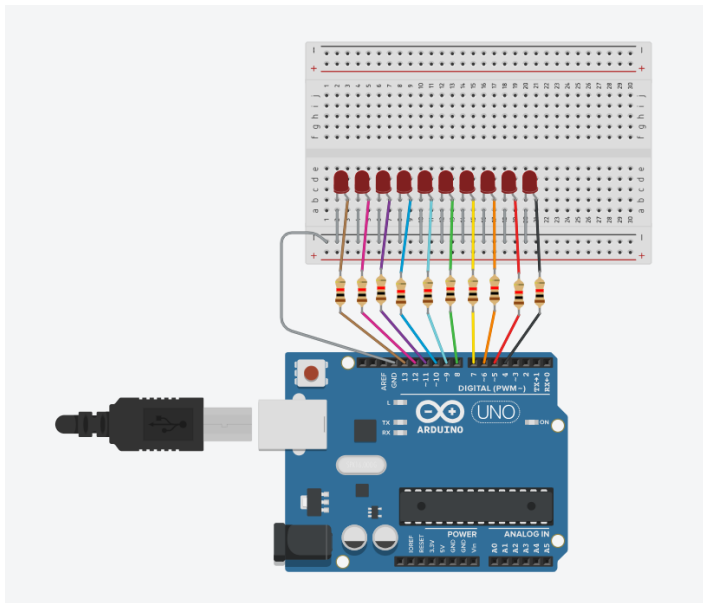**Aluno:** Luciano Ventura Monegatto

Prática exercício 1:

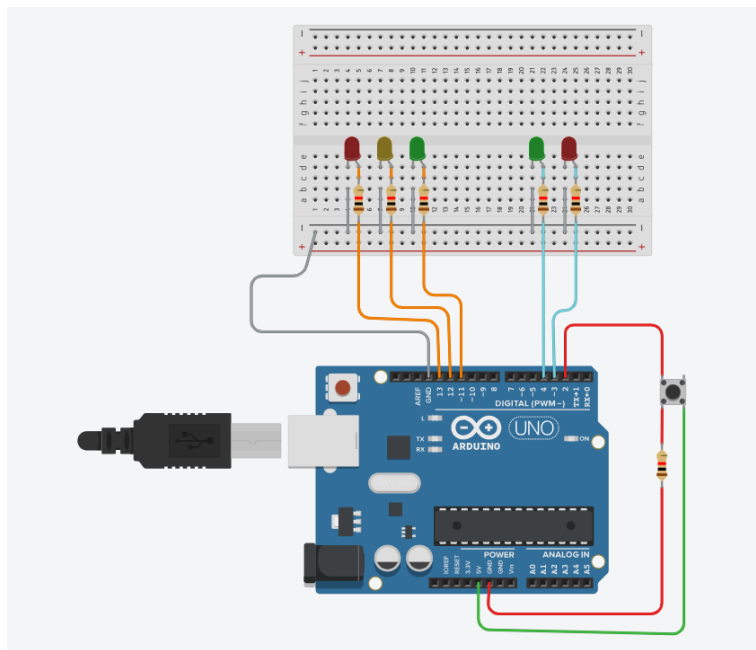
```
1   int led_1;
2   int led_2;
3   int led_3;
4   int led_4;
5   int led_5;
6   int led_6;
7   void setup()
8   {
9     led_1=13;
10    led_2=12;
11    led_3=11;
12    led_4=2;
13    led_5=3;
14    led_6=4;
15
16    pinMode(led_1, OUTPUT);
17    pinMode(led_2, OUTPUT);
18    pinMode(led_3, OUTPUT);
19    pinMode(led_4, OUTPUT);
20    pinMode(led_5, OUTPUT);
21    pinMode(led_6, OUTPUT);
22  }
23
24  void loop()
25  {
26    digitalWrite(led_1,HIGH);
27    digitalWrite(led_2,HIGH);
28    digitalWrite(led_3,HIGH);
29    digitalWrite(led_4,LOW);
30    digitalWrite(led_5,LOW);
31    digitalWrite(led_6,LOW);
32    delay(1000);
33    digitalWrite(led_1,LOW);
34    digitalWrite(led_2,LOW);
35    digitalWrite(led_3,LOW);
36    digitalWrite(led_4,HIGH);
37    digitalWrite(led_5,HIGH);
38    digitalWrite(led_6,HIGH);
39    delay(1000);
40  }
```

Prática exercício 2:


```
 1   int led_1;
 2   int led_2;
 3   int led_3;
 4   int led_4;
 5   int led_5;
 6   int led_6;
 7   int led_7;
 8   int led_8;
 9   int led_9;
10   int led_10;
11   void setup()
12   {
13      led_1 = 13;
14      led_2 = 12;
15      led_3 = 11;
16      led_4 = 10;
17      led_5 = 9;
18      led_6 = 8;
19      led_7 = 7;
20      led_8 = 6;
21      led_9 = 5;
22      led_10 = 4;
23
24      pinMode(led_1,  OUTPUT);
25      pinMode(led_2,  OUTPUT);
26      pinMode(led_3,  OUTPUT);
27      pinMode(led_4,  OUTPUT);
28      pinMode(led_5,  OUTPUT);
29      pinMode(led_6,  OUTPUT);
30      pinMode(led_7,  OUTPUT);
31      pinMode(led_8,  OUTPUT);
32      pinMode(led_9,  OUTPUT);
33      pinMode(led_10,  OUTPUT);
34
35   }
36
```

```
36
37   void loop()
38   {
39      digitalWrite(led_1,HIGH);
40      delay(1000);
41      digitalWrite(led_2,HIGH);
42      delay(1000);
43      digitalWrite(led_3,HIGH);
44      delay(1000);
45      digitalWrite(led_4,HIGH);
46      delay(1000);
47      digitalWrite(led_5,HIGH);
48      delay(1000);
49      digitalWrite(led_6,HIGH);
50      delay(1000);
51      digitalWrite(led_7,HIGH);
52      delay(1000);
53      digitalWrite(led_8,HIGH);
54      delay(1000);
55      digitalWrite(led_9,HIGH);
56      delay(1000);
57      digitalWrite(led_10,HIGH);
58      delay(1000);
59      digitalWrite(led_10,LOW);
60      delay(1000);
61      digitalWrite(led_9,LOW);
62      delay(1000);
63      digitalWrite(led_8,LOW);
64      delay(1000);
65      digitalWrite(led_7,LOW);
66      delay(1000);
67      digitalWrite(led_6,LOW);
68      delay(1000);
69      digitalWrite(led_5,LOW);
70      delay(1000);
71      digitalWrite(led_4,LOW);
72      delay(1000);
73      digitalWrite(led_3,LOW);
74      delay(1000);
75      digitalWrite(led_2,LOW);
76      delay(1000);
77      digitalWrite(led_1,LOW);
78      delay(1000);
79   }
```

Prática exercício 3:


```
1   int led_1;
2   int led_2;
3   int led_3;
4   int led_4;
5   int led_5;
6   int buttonState;
7   int buttonRead;
8   void setup()
9   {
10    led_1 = 13;
11    led_2 = 12;
12    led_3 = 11;
13    led_4 = 4;
14    led_5 = 3;
15
16    pinMode(13,OUTPUT);
17    pinMode(12,OUTPUT);
18    pinMode(11,OUTPUT);
19    pinMode(4,OUTPUT);
20    pinMode(3,OUTPUT);
21    pinMode(2,INPUT);
22  }
23
```

```
24  void loop()
25  {
26    digitalWrite(11,HIGH);
27    digitalWrite(3,HIGH);
28    buttonState = digitalRead(2);
29   if (buttonState == HIGH){
30    digitalWrite(11,LOW);
31    digitalWrite(12,HIGH);
32    delay(2000);
33    digitalWrite(12,LOW);
34    digitalWrite(13,HIGH);
35    digitalWrite(3,LOW);
36    digitalWrite(4,HIGH);
37    delay(4000);
38    digitalWrite(4,LOW);
39    digitalWrite(3,HIGH);
40    delay(1000);
41    digitalWrite(3,LOW);
42    delay(1000);
43    digitalWrite(3,HIGH);
44    delay(1000);
45    digitalWrite(3,LOW);
46    delay(1000);
47    digitalWrite(3,HIGH);
48    digitalWrite(13,LOW);
49  }
50  }
```