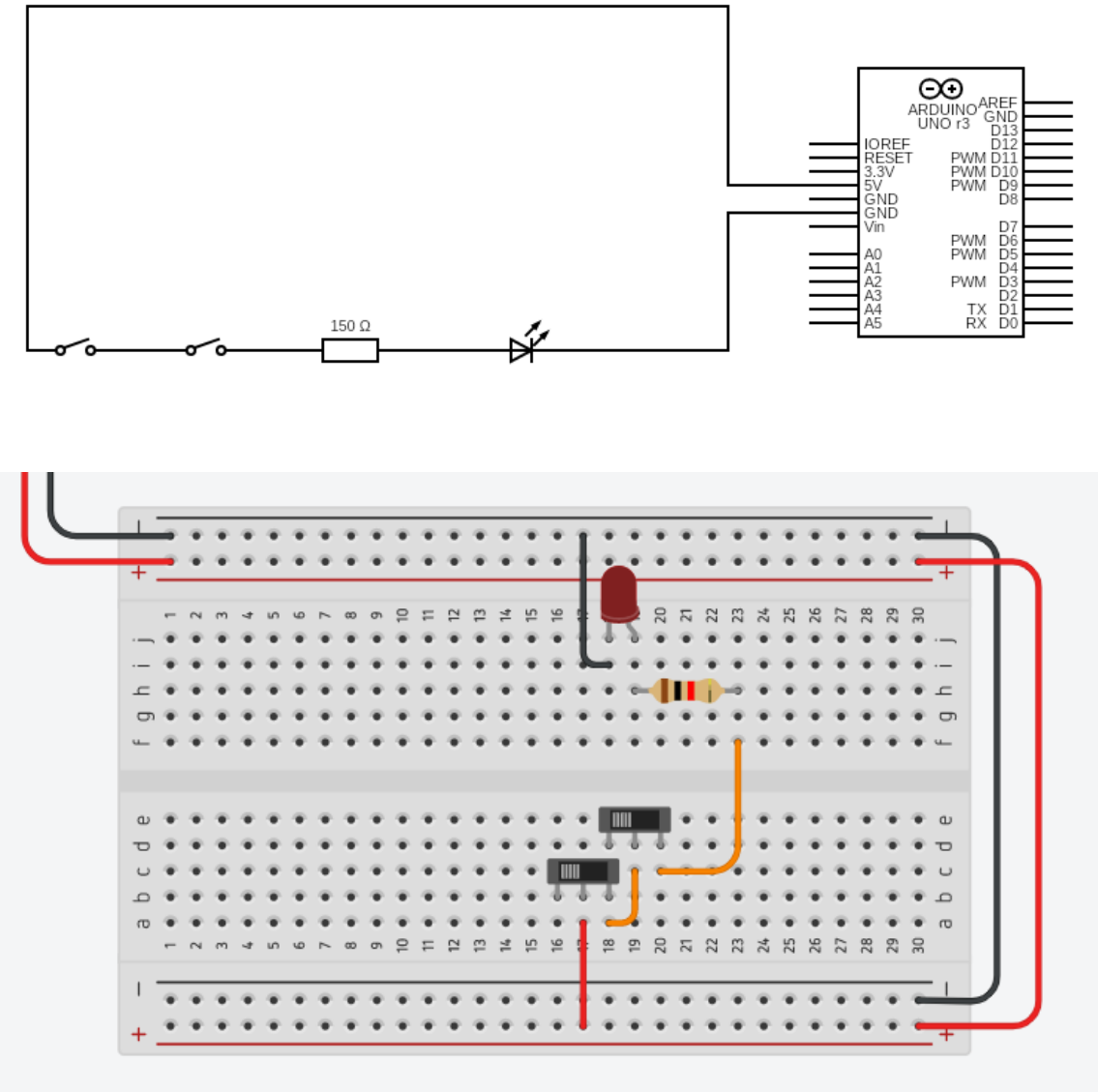
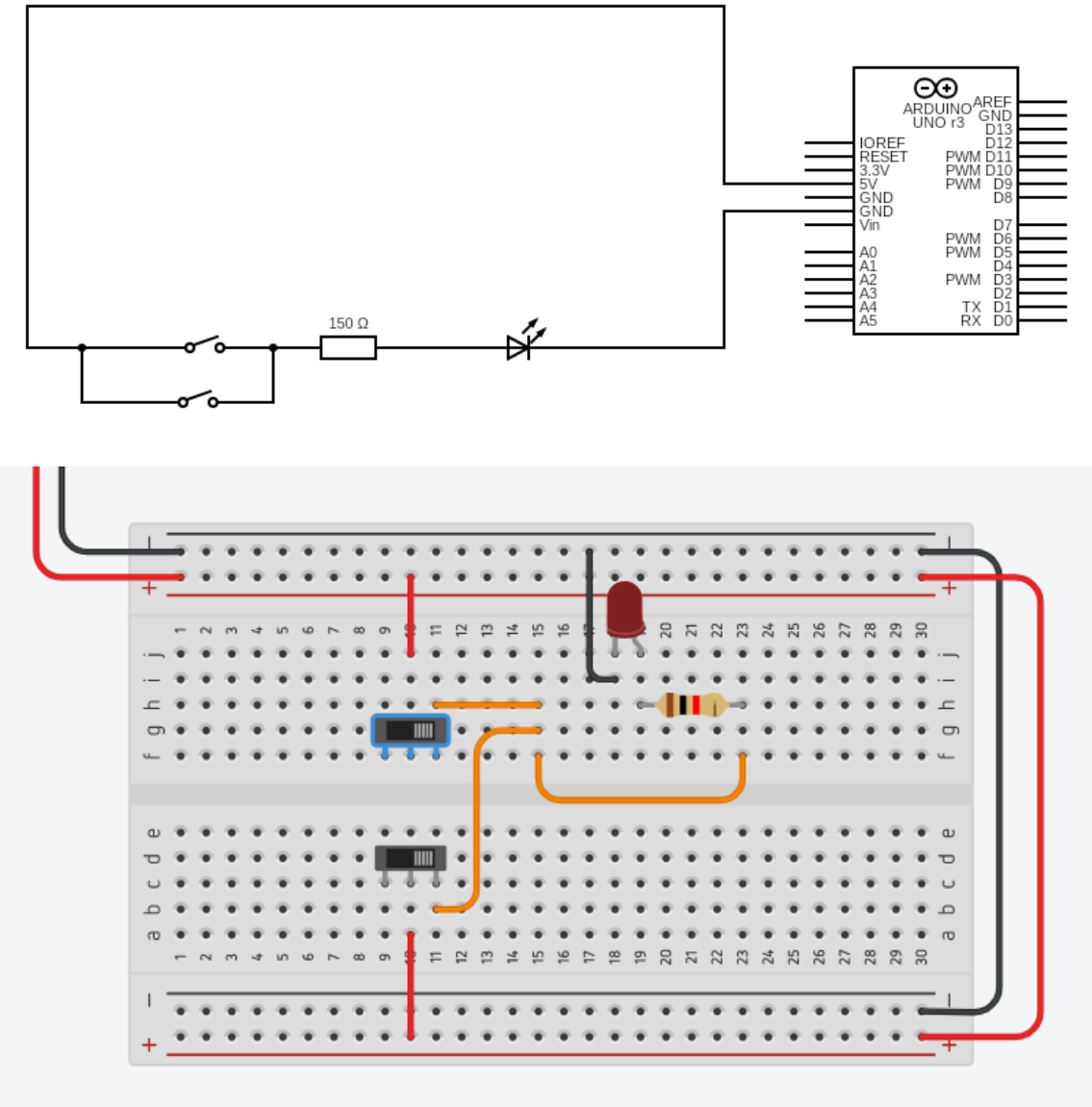


2 – PORTA AND



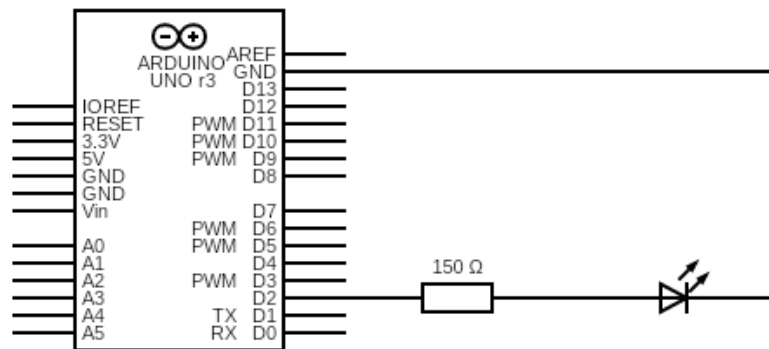
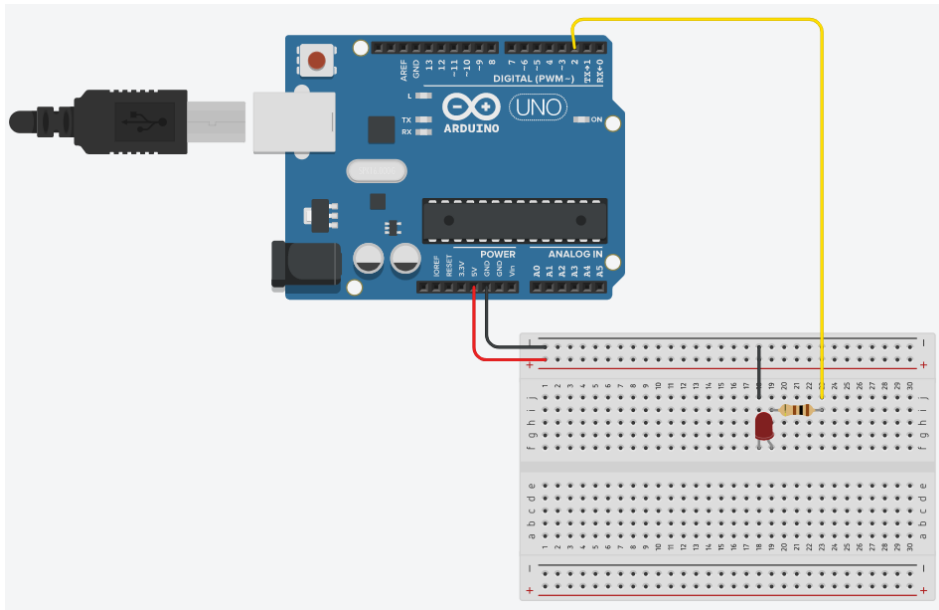
3 – PORTA OR



PARTE 2

1 –

A)



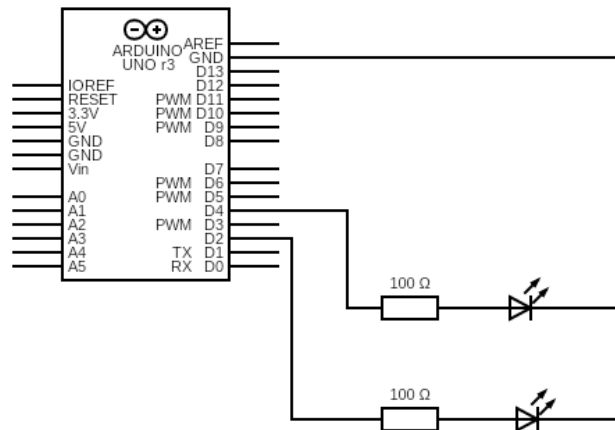
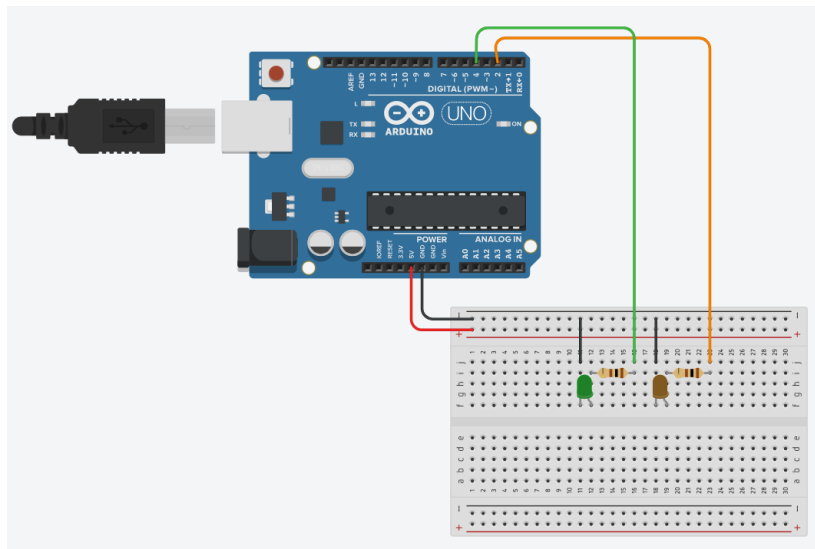
$$T = \frac{1}{F} = \frac{1}{1} = 1s = 1000ms$$

```
#define LED_PIN 2 //Define o pino 2 como LED_PIN

void setup() //Função executada somente uma vez
{
    pinMode(LED_PIN, OUTPUT); //Define o pino LED_PIN como saída
}

void loop() //Função executada infinitamente
{
    digitalWrite(LED_PIN, HIGH); //Liga o LED
    delay(500); //Espera 500ms
    digitalWrite(LED_PIN, LOW); //Desliga o LED
    delay(500); //Espera 500ms
}
```

B) A frequência máxima em que é possível visualizar o LED piscar é 10Hz (T = 100ms).



Frequência adotada: 7,14Hz

```

#define LED_PIN_1 2
#define LED_PIN_2 4

void setup()
{
  pinMode(LED_PIN_1, OUTPUT); //Define o LED1 como saída
  pinMode(LED_PIN_2, OUTPUT); //Define o LED2 como saída
}

void loop()
{
  //LED 1 fica ligado enquanto LED 2 fica desligado
  //Espera 70ms
  //LED 1 fica desligado enquanto LED 2 fica ligado
  //Espera 70ms

  digitalWrite(LED_PIN_1, HIGH);
  digitalWrite(LED_PIN_2, LOW);
  delay(70);
  digitalWrite(LED_PIN_1, LOW);
  digitalWrite(LED_PIN_2, HIGH);
  delay(70);
}

```