INSTITUTO FEDERAL
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Rio de Janeiro

# RELATÓRIO
# PROJETOS DE MICROCONTROLADORES

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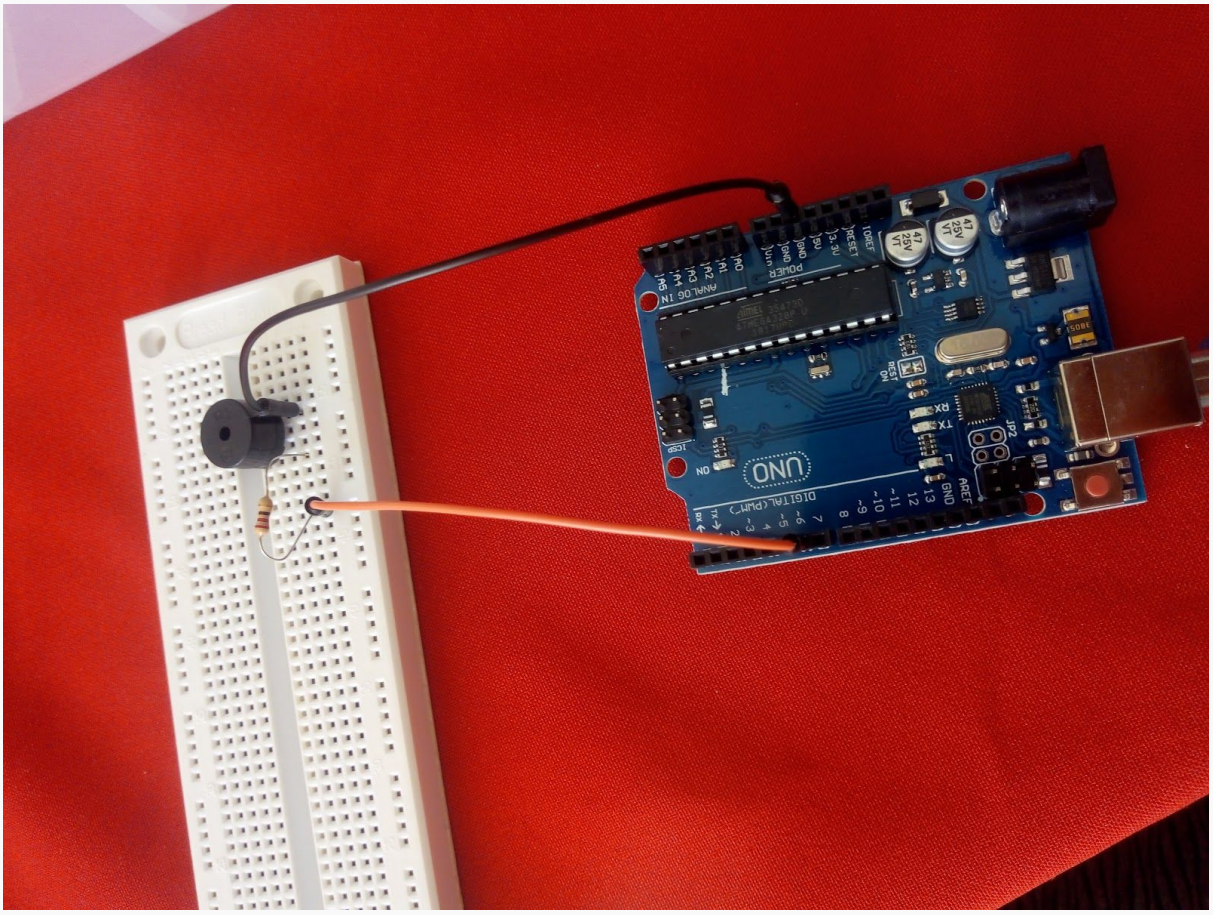
Turma: 2 integrado informática

# Projeto Reproduzir Som:

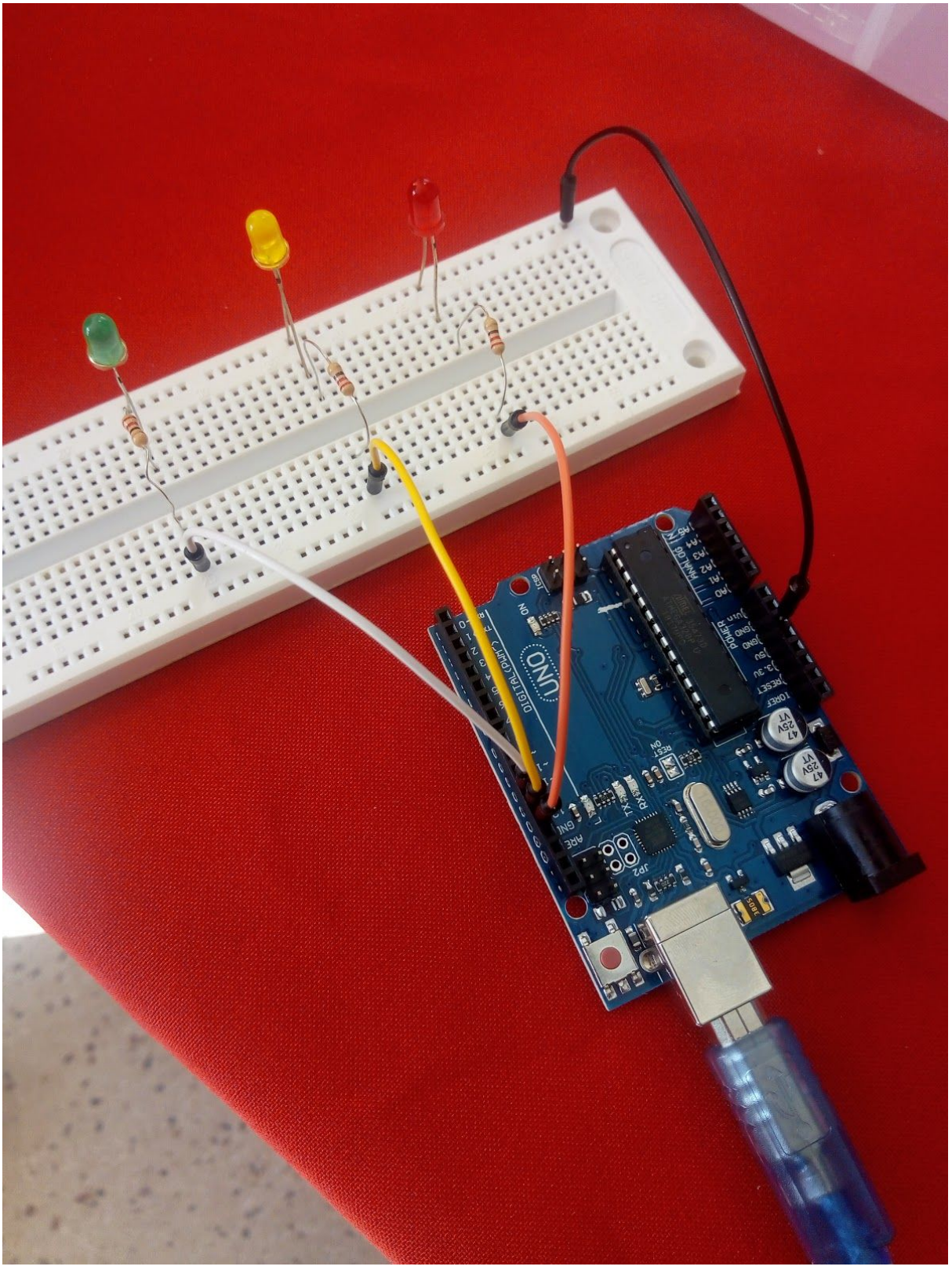


# Código:

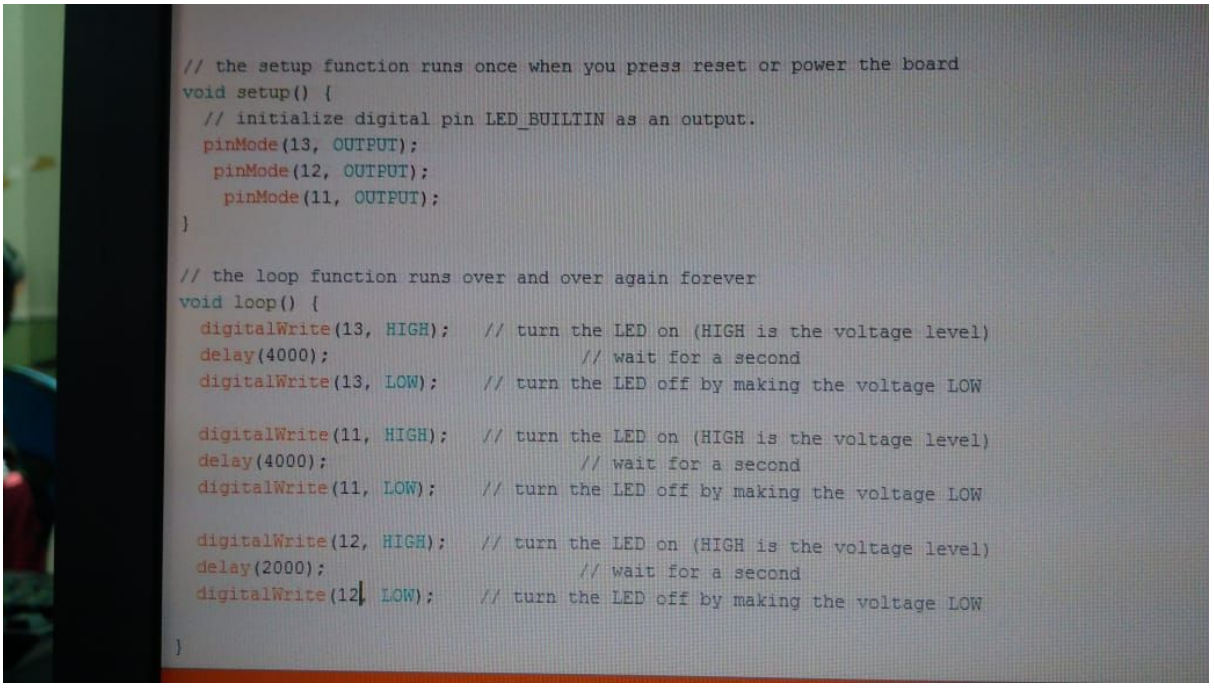
```
int buzzer = 5;

void setup() {

 pinMode(buzzer,OUTPUT);
}

void loop() {
 digitalWrite(buzzer, HIGH);
 delay(1000);
 }
```

| Componentes | Quantidades |
|---|---|
| Arduino | 1 |
| Protoboard | 1 |
| Cabo | 2 |
| Resistor | 1 |
| Buzzer | 1 |

# Projeto semáforo :



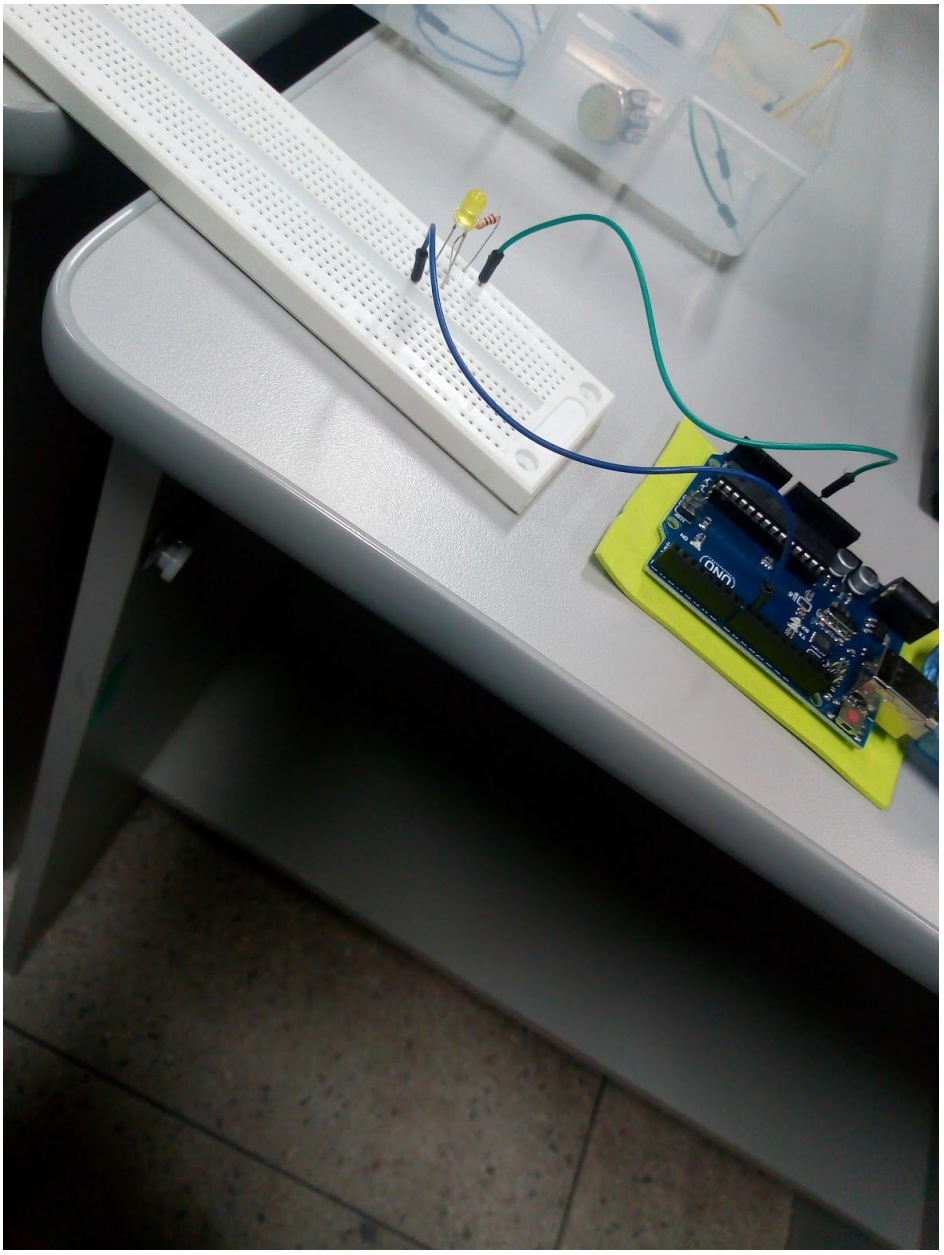
# Código:



```
// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(13, OUTPUT);
   pinMode(12, OUTPUT);
    pinMode(11, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(13, HIGH);   // turn the LED on (HIGH is the voltage level)
  delay(4000);                       // wait for a second
  digitalWrite(13, LOW);    // turn the LED off by making the voltage LOW

  digitalWrite(11, HIGH);   // turn the LED on (HIGH is the voltage level)
  delay(4000);                       // wait for a second
  digitalWrite(11, LOW);    // turn the LED off by making the voltage LOW

  digitalWrite(12, HIGH);   // turn the LED on (HIGH is the voltage level)
  delay(2000);                       // wait for a second
  digitalWrite(12, LOW);    // turn the LED off by making the voltage LOW

}
```

| Componentes | Quantidades |
|---|---|
| Arduino | 1 |
| Cabo | 4 |
| Led | 3 |
| Resistor | 3 |
| Protoboard | 1 |

# Projeto Acender Um Led:



| Componentes | Quantidades |
| --- | --- |
| Arduino | 1 |
| Protoboard | 1 |
| Led | 1 |
| Resistor | 1 |
| Cabo | 2 |

## Código:

```
int led = 0;
void setup(){
pinMode(led, OUTPUT);
}
void loop(){
digitalWrite(led, HIGH);
}
```

## Fontes:

https://portal.vidadesilicio.com.br/usando-o-buzzer-com-arduino-transdutor-piezo-eletrico/
https://www.circuitar.com.br/projetos/controlando-buzzer/