

IFPB - Instituto Federal de Educação, Ciência e Tecnologia da Paraíba

Disciplina: Sistemas Embarcados

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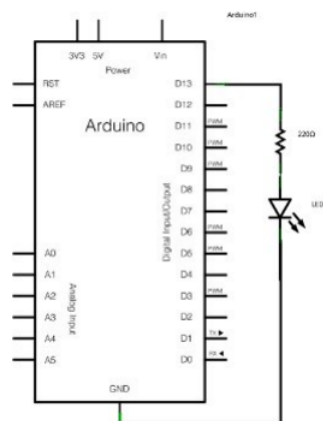
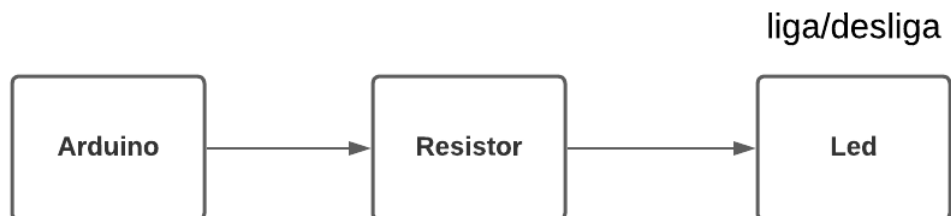
Aluno: Joab da Silva Maia

05 - Atividade de Interrupção

Resolução de questão

Exemplo prático 1)

a e b)



c)

```
int led = 13;
void interrupcao() {
    digitalWrite(led, HIGH);
    delay(5000);
}

void setup() {
    pinMode(led, OUTPUT);
    attachInterrupt(0, interrupcao, RISING);
}
```

```

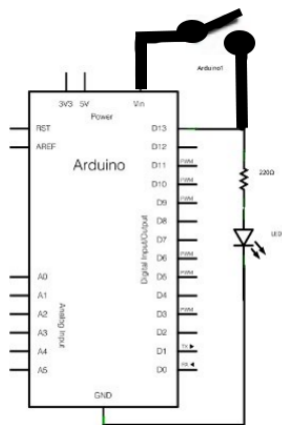
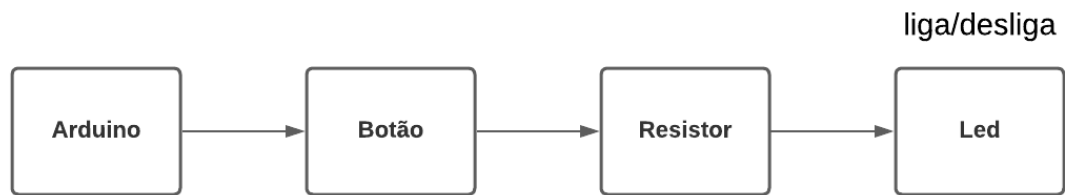
}

void loop() {
  digitalWrite(led, HIGH); // Liga o LED (HIGH = nível lógico alto)
  delay(5000); // Espera 5 segundos
  digitalWrite(led, LOW); // Desliga o LED (LOW = nível lógico baixo)
  delay(30000); // Espera 30 segundos
}

```

Exemplo prático 2)

a) e b)



c)

```

int pin = 13;
volatile int state = LOW;
volatile int state1 = LOW;

void setup() {
  pinMode(pin, OUTPUT);
  attachInterrupt(0, blink, FALLING);
}

void loop(){
  digitalWrite(pin, state);
}

void blink() {
  if(state==state1){
    state = !state1;
    digitalWrite(pin, HIGH);
    delay(2000);
  }
}

```

```
    digitalWrite(pin, LOW);  
    delay(1000);  
}  
else{  
    state=state1;  
    digitalWrite(pin, HIGH);  
    delay(5000);  
    digitalWrite(pin, LOW);  
    delay(25000);  
}  
}
```