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

**Disciplina: Sistemas Embarcados**

**Professor: Alexandre Sales Vasconcelos**

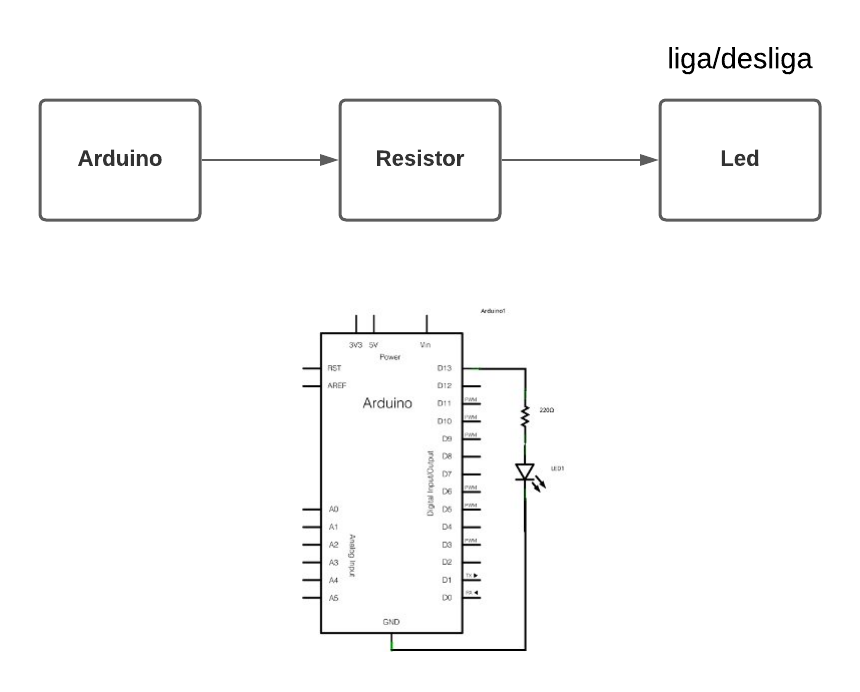
**Aluno: Joab da Silva Maia**

**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);

delay(**5000**);

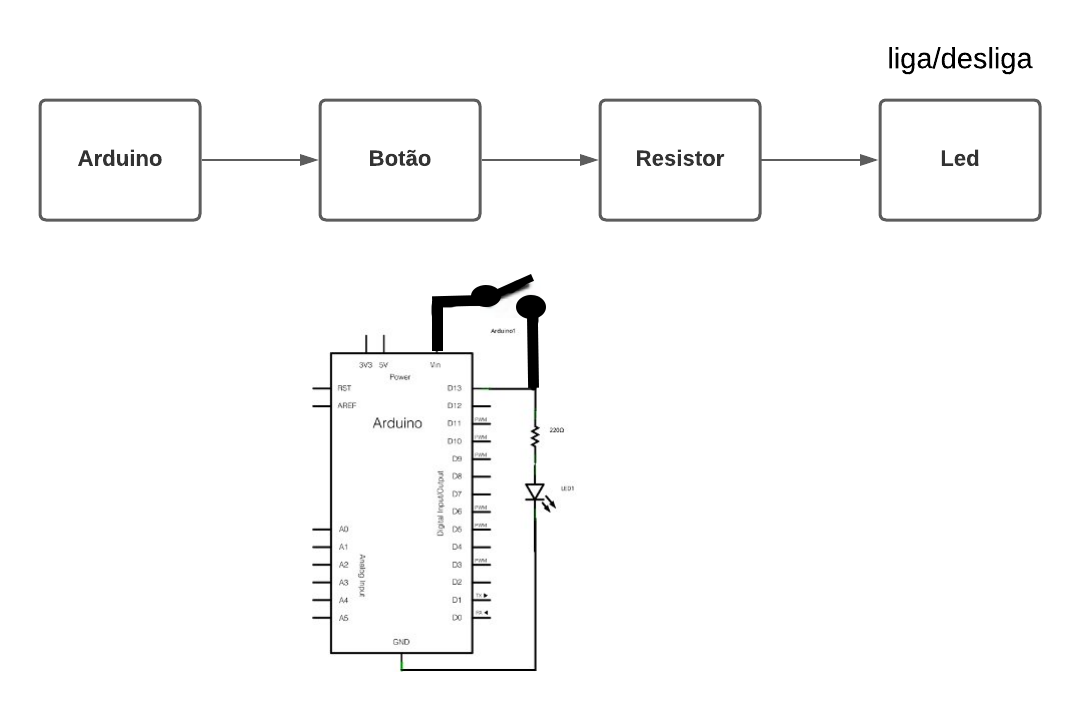
digitalWrite(led, LOW);

delay(**30000**);

}

**Exemplo prático 2)**

1. **e b)**

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**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**);

}

}