

UNIVERSIDADE DE RIBEIRÃO PRETO

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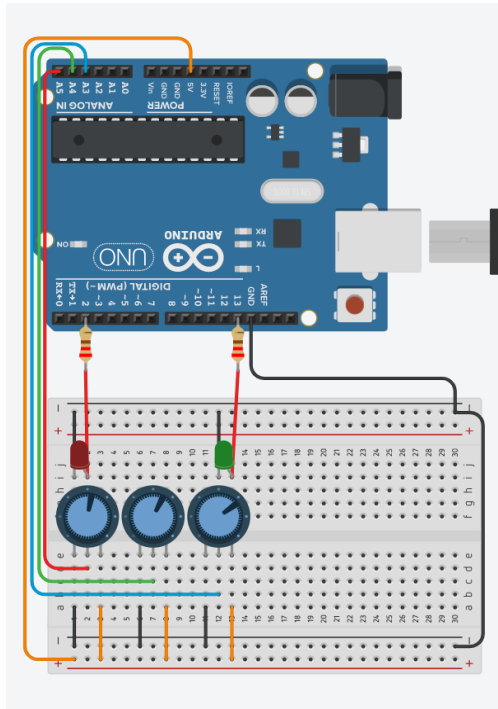
TRABALHO PARCIAL – LÓGICA E CRIATIVIDADE

Ribeirão Preto

2023

Problema: cofre

Link do projeto: [cofre](#)



```
int vermelho=2, verde=13, sequencia=0, potA1, potB1, potC1;
```

```
const int potA = A5, potB = A4, potC = A3, senha=456;
```

```
void setup(){
```

```
  Serial.begin(9600);
```

```
  pinMode(verde,OUTPUT);
```

```
  pinMode(vermelho,OUTPUT);
```

```
}
```

```
void loop(){
```

```
  potA1 = analogRead(potA);
```

```
  potB1 = analogRead(potB);
```

```
  potC1 = analogRead(potC);
```

```
  potA1 = map (potA1, 0, 1023, 0, 9);
```

```
  potB1 = map (potB1, 0, 1023, 0, 9);
```

```
  potC1 = map (potC1, 0, 1023, 0, 9);
```

```
  sequencia= potA1*100+potB1*10+potC1;
```

```
  Serial.println(sequencia);
```

```
  if(sequencia==senha){
```

```
    digitalWrite(vermelho, 0);
```

```
    digitalWrite(verde, 1);
```

```
  }else{
```

```
    digitalWrite(verde, 0);
```

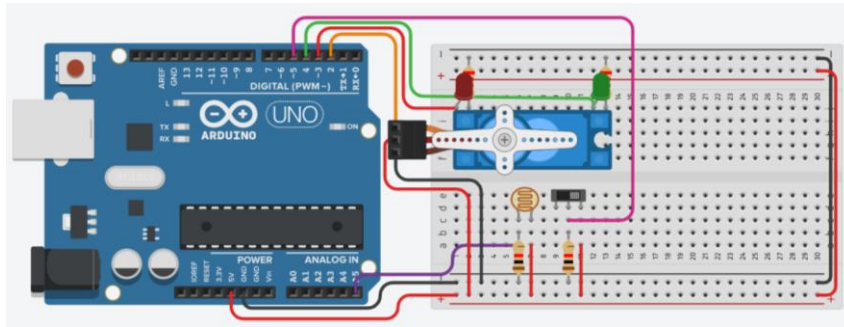
```
    digitalWrite(vermelho, 1);
```

```
  }
```

```
}
```

Problema: cortina inteligente

Link do projeto: [cortina inteligente](#)



```
#include <Servo.h>

int porta_servo=2, fot=A5, status_fot, i, interruptor = 5,status_inter, verde = 4, vermelho = 3;

Servo motor;

void setup(){
  Serial.begin(9600);
  motor.attach(porta_servo);
  pinMode(interruptor,INPUT);
  pinMode(verde,OUTPUT);
  pinMode(vermelho,OUTPUT);
}

void loop(){
  status_fot=analogRead(fot);
  Serial.println(status_fot);
  status_inter=digitalRead(interruptor);
  Serial.println(status_inter);
  if(status_inter==1){
    digitalWrite(verde, 1);
    digitalWrite(vermelho, 0);
    if(status_fot>500){
      for(i=0; i<181; i++){
        motor.write(i);
        delay(500);
      }
    }else{
      motor.write(0);
      delay(500);
    }
  }
  else{
    digitalWrite(verde, 0);
    digitalWrite(vermelho, 1);
    motor.write(0);
    delay(500); }
}
```