CENTRO UNIVERSITÁRIO DE ANÁPOLIS
UNIEVANGÉLICA
CURSOS SUPERIORES DE COMPUTAÇÃO

Circuitos Digitais

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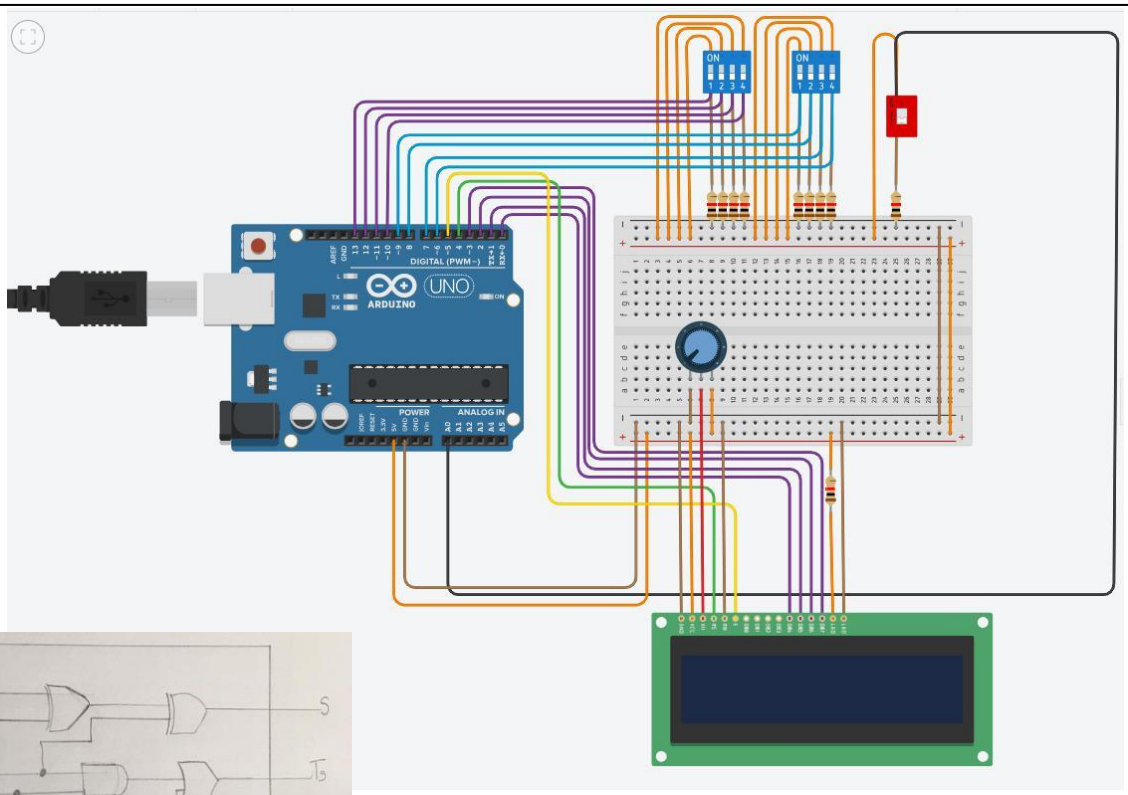

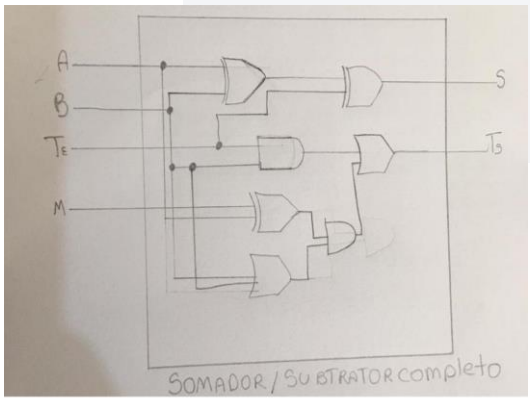

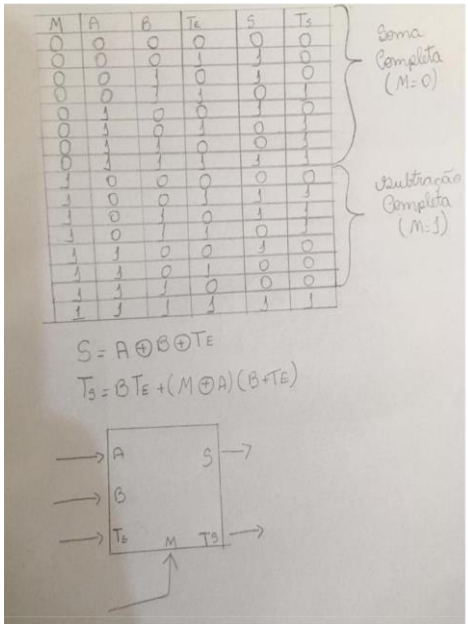

```
#define G 4
#define B 3
#define BUZZER 9
#define LM A0
#define LDR A1
#define POT A2

void setup(){
  pinMode(R, OUTPUT);
  pinMode(G, OUTPUT);
  pinMode(B, OUTPUT);
}

void loop(){
    analogWrite(R, random(255));
    analogWrite(G, random(255));
    analogWrite(B, random(255));
    delay(200);
}

void setup(){
 pinMode(BUZZER,  OUTPUT);
 pinMode(LM,  INPUT);
 pinMode(LDR,  INPUT);
 pinMode(POT, INPUT);
 Serial.begin(9600);
}

void loop(){
 static unsigned long info = 0;

 if (millis() - info > 200){
  info = millis();

  Serial.print("Temp = ");
  Serial.print(map(analogRead(LM),0, 1023, -50, 450));
  Serial.println("oC");

  Serial.print("LDR = ");
Serial.println(analogRead(LDR));

  Serial.print("Potenciometro = ");
  Serial.print(map(analogRead(LM),0, 1023, 0, 100));
  Serial.println("% \n");
 }
 if(analogRead(POT)>128){
  static unsigned long timeBuzz  = 0;
  if(millis() - timeBuzz > 100){
            tone(BUZZER,  100 + analogRead(POT));
  }
  if(millis() - timeBuzz > 300){
    noTone(BUZZER);
    timeBuzz  = millis();
  }
 }
 else{
  noTone(BUZZER);
 }
}
```