```
#include <LiquidCrystal.h>

LiquidCrystal lcd(12,11,10,9,7,6,5); // RS,E,D4,D5,D6,D7




void setup()
{
        lcd.begin(16, 2);


}

void loop()
{
    int a = analogRead(0);


    int conv1 = map(a, 0, 1023, 0, 100);
```

```
lcd.print("-Nivel atual:");

lcd.print(conv1);

if (conv1 <= 30)

{

        lcd.setCursor(0, 1);


        lcd.println("--Nivel Baixo----");


    lcd.setCursor(13 , 0);

        lcd.println(conv1);

}

if (conv1 > 30 && conv1 <80)

{

    lcd.setCursor(0, 1);


    lcd.println("--Nivel medio----");

    lcd.setCursor(13 , 0);

        lcd.println(conv1);

}

if (conv1 >= 80)

{

    lcd.setCursor(0,1);


    lcd.println("--Nivel Alto----");

    lcd.setCursor(13 , 0);

        lcd.println(conv1);

}

lcd.print(conv1);

}
```
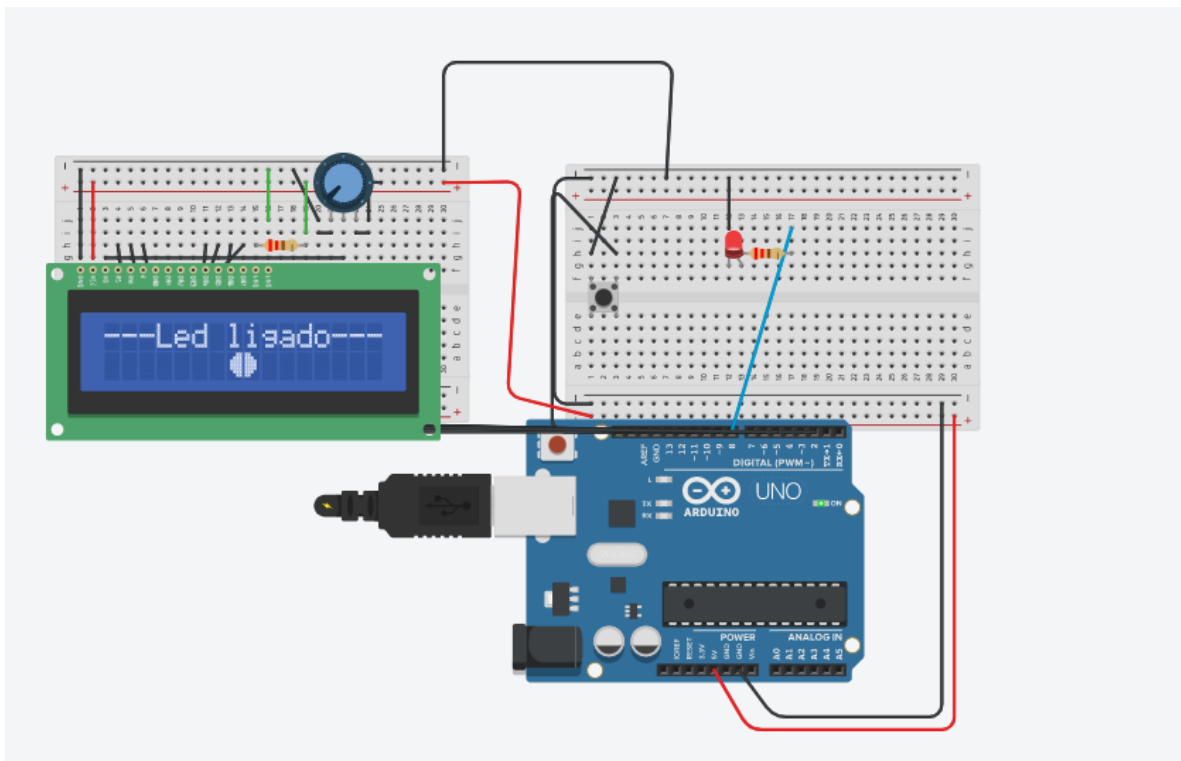
#include <LiquidCrystal.h>

LiquidCrystal lcd(12,11,10,9,7,6,5);

int led_A = LOW;

void setup()

{

   Serial.begin(9600);

   pinMode(8,OUTPUT);

   pinMode(5,OUTPUT);

```arduino
pinMode(2,INPUT_PULLUP);
   lcd.begin(16,2);
lcd.print("Prog.2>05-07-21");
lcd.setCursor(6,1);
lcd.print("T.41");
delay(4000);
lcd.clear();

byte C[] = {
B00011,
B00100,
B01000,
B01000,
B01000,
B00100,
B00011,
   B00000};

   byte r[] = {
B00011,
B00111,
B01111,
B01111,
B01111,
B00111,
B00011,
   B00000
};
   byte u[] = {
```

```
    B11000,

    B00100,

    B00010,

    B00010,

    B00010,

    B00100,

    B11000,

    B00000


};
byte H[] = {

    B11000,

    B11100,

    B11110,

    B11110,

    B11110,

    B11100,

    B11000,

    B00000

};
  lcd.createChar(1,C);

    lcd.createChar(2,r);

    lcd.createChar(3,u);

    lcd.createChar(4,H);

}


void loop()

{
```

```arduino
int bot_A = digitalRead(2);



if (bot_A == LOW)
{

    led_A = !led_A;
    digitalWrite(8,led_A);
    delay(400);
}
if (led_A == HIGH)
    {

        lcd.setCursor(0,0);
        lcd.println("---Led ligado---");
        lcd.setCursor(7,1);
        lcd.write(2);
        lcd.write(4);

        delay(400);
    }

  if(led_A == LOW)
    {
          Serial.println("Led Desligado");
      lcd.setCursor(0,0);
      lcd.println("--Led desligado--");
        lcd.setCursor(7,1);
```

```
lcd.write(1);

lcd.write(3);

delay(400);

    }

}
```