



UNIVERSITI  
PENDIDIKAN  
SULTAN IDRIS  
اونیورسٹی فنديديقن سلطان ادريس  
SULTAN IDRIS EDUCATION UNIVERSITY



RISE @UPSI  
Research, Innovation, Society and Entrepreneurship

## MODUL PEMBELAJARAN ELEKTRONIK DENGAN KEFUNGSIAN PENDERIA

### 1.0 PAPARAN LCD

#### 1.3 BLINK

MULAKAN



DI SEDIAKAN OLEH AMIN, DR IRDAYANTI

**STEP 1:**

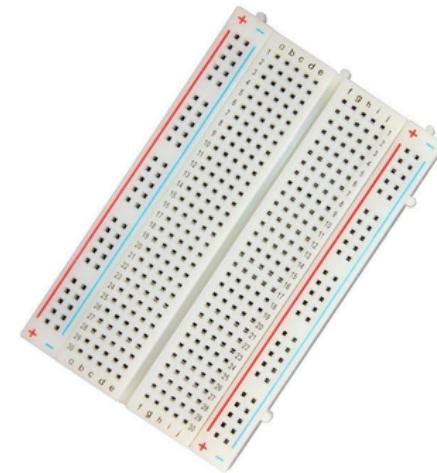
**SEDIAKAN SEMUA KOMPONEN**



**SLIDESWITCH**



**ARDUINO UNO R3**



**BREADBOARD**



**LCD 16 X 2 (I2C)**



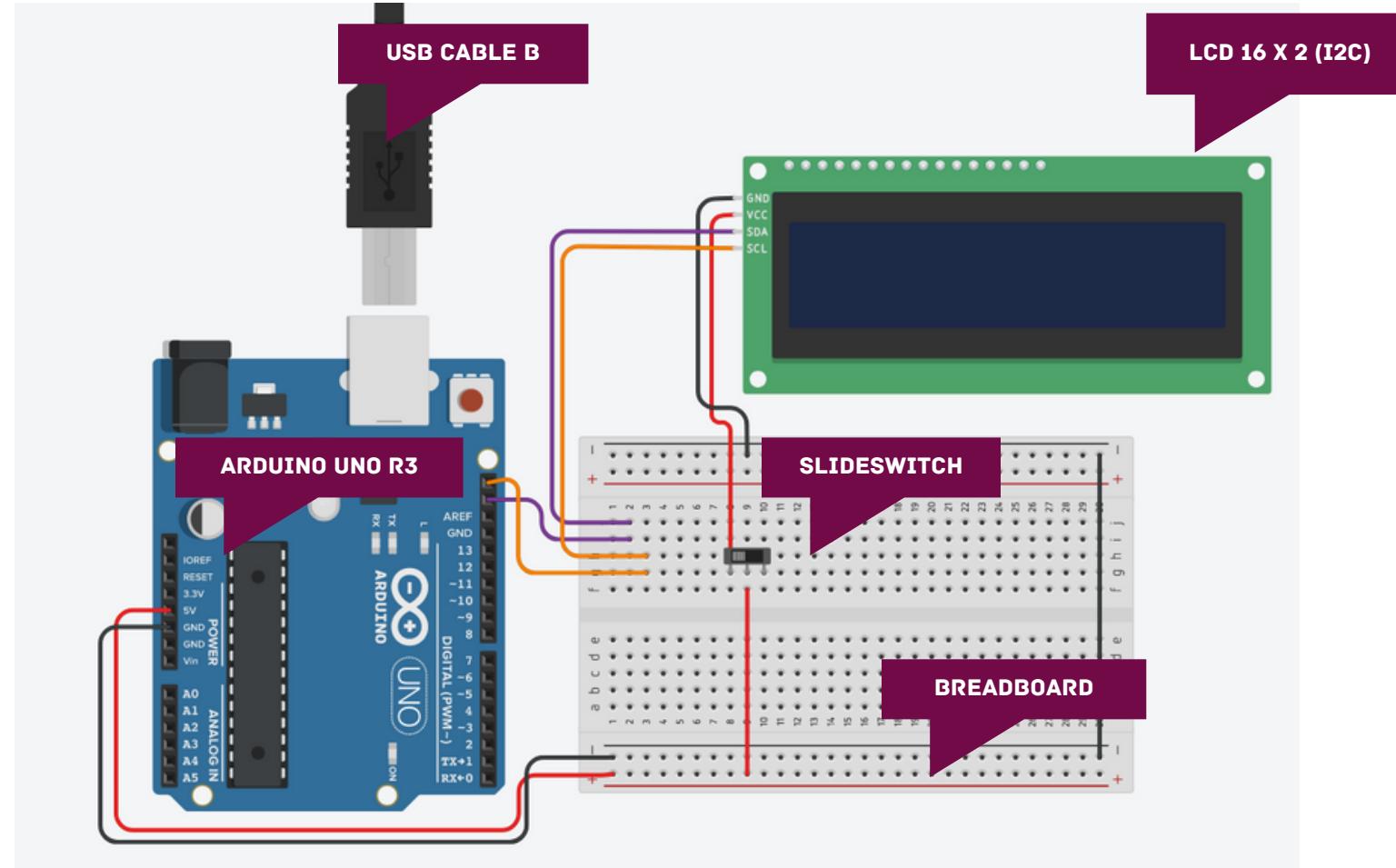
**MALE TO MALE / FEMALE TO MALE  
JUMPER WIRES-10 PIECES**

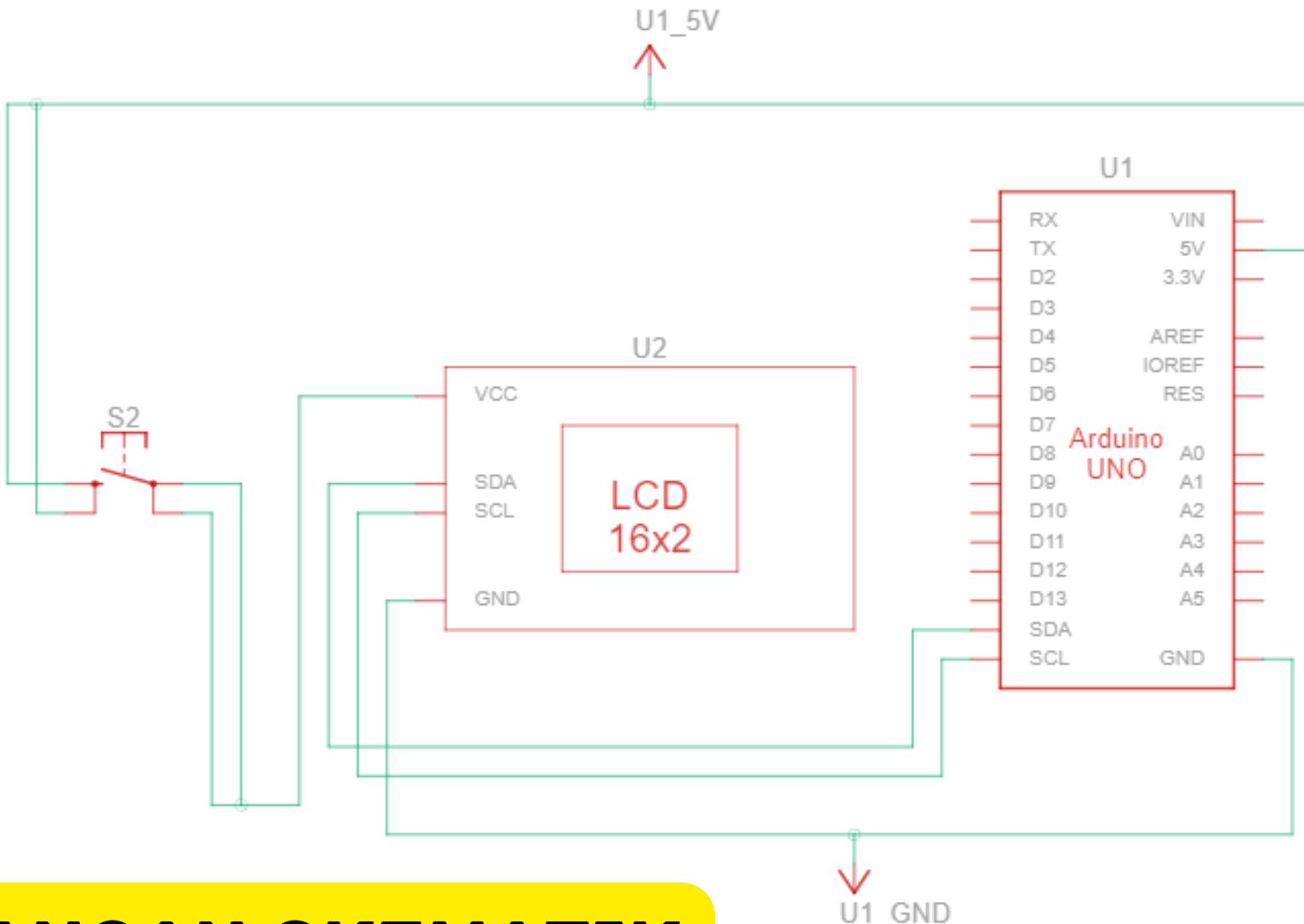


**USB CABLE B**

**STEP 2 :**

**GAMBAR RAJAH SAMBUNGAN**

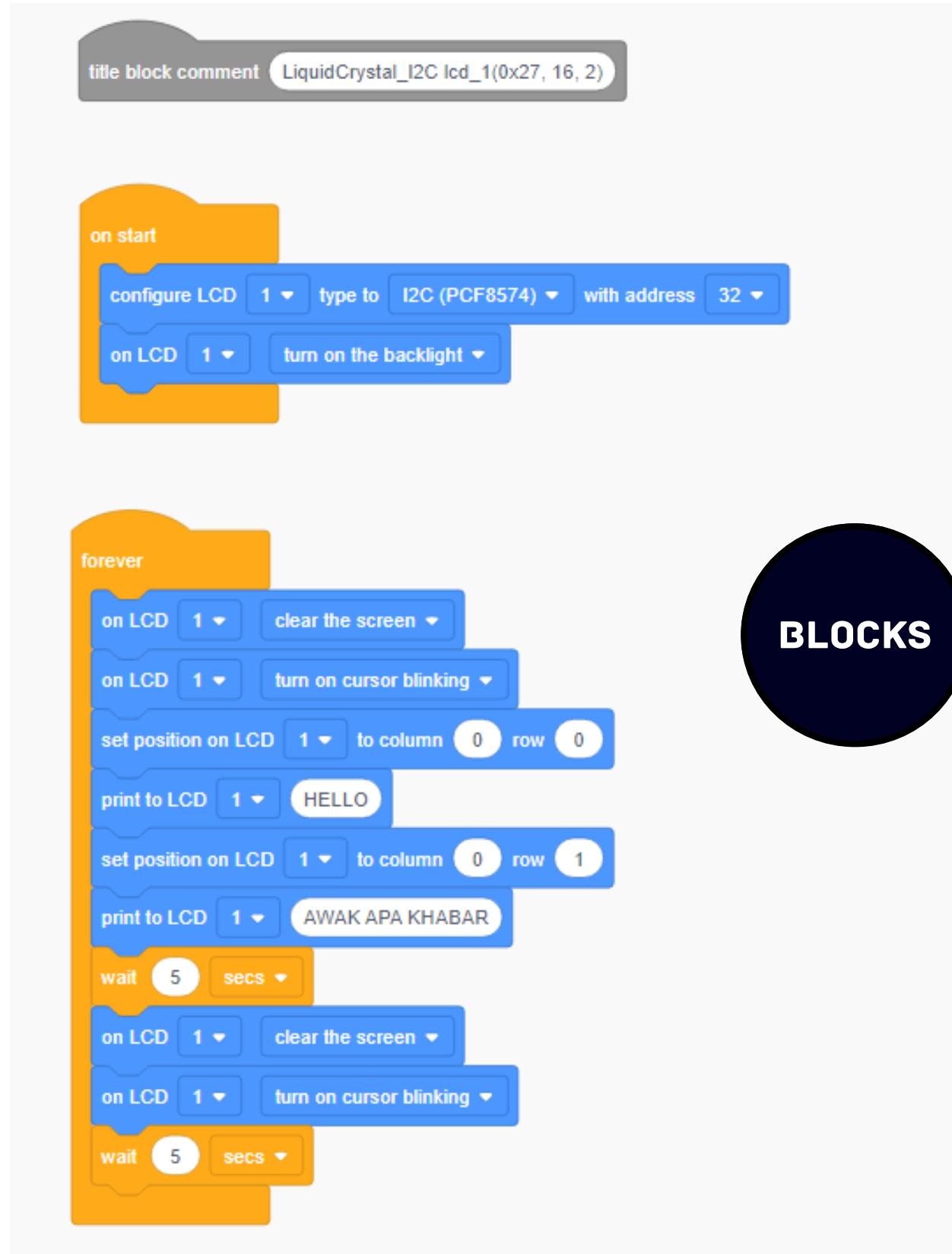




## PANDANGAN SKEMATIK

# **STEP 3 :**

# **CODDING ARDUINO UNO**



BLOCKS

```
// C++ code
//
/*
    LiquidCrystal_I2C lcd_1(0x27, 16, 2)
*/

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd_1(32, 16, 2);

void setup()
{
    lcd_1.init();

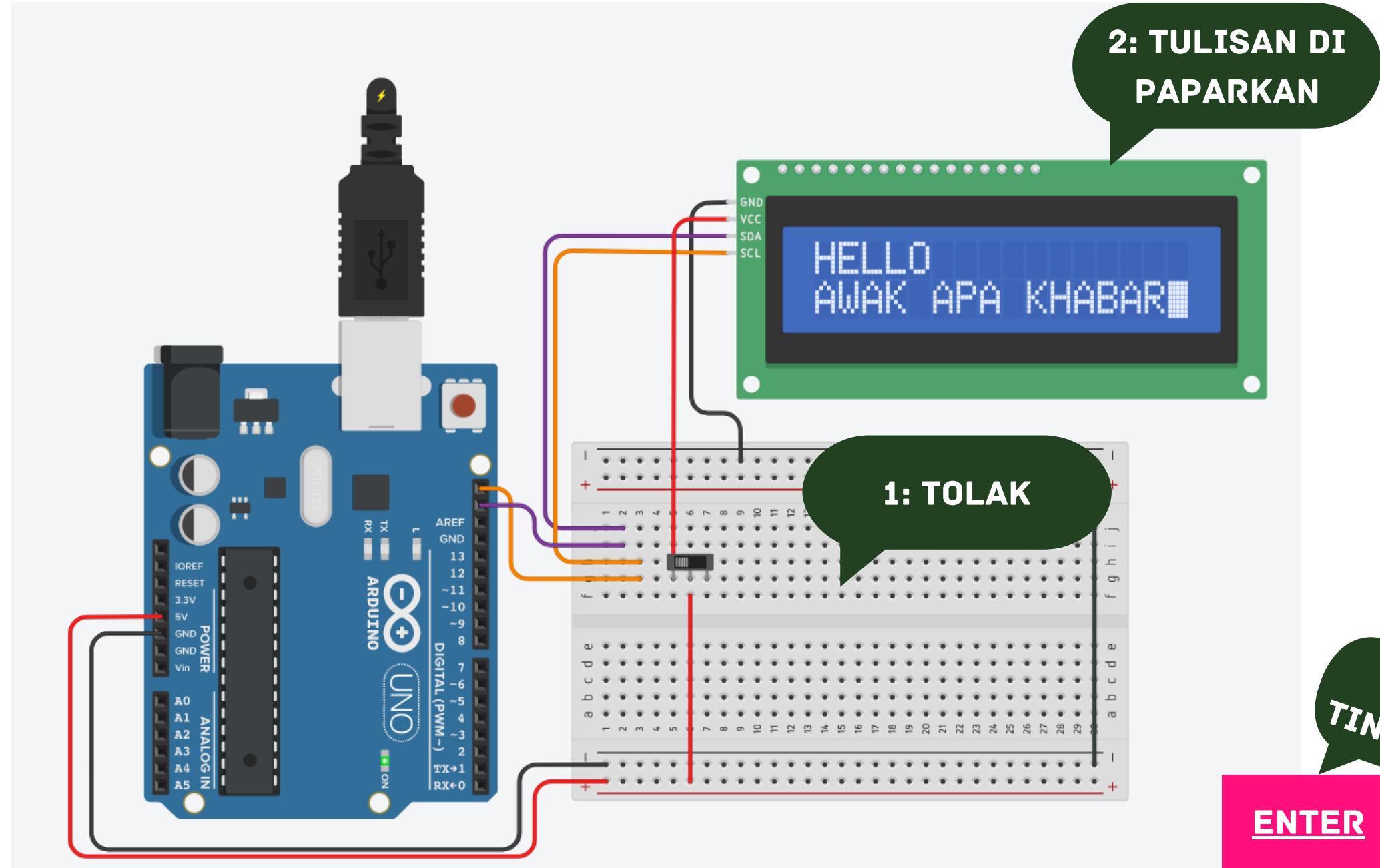
    lcd_1.backlight();
}

void loop()
{
    lcd_1.clear();
    lcd_1.blink();
    lcd_1.setCursor(0, 0);
    lcd_1.print("HELLO");
    lcd_1.setCursor(0, 1);
    lcd_1.print("AWAK APA KHABAR");
    delay(5000); // Wait for 5000
    millisecond(s)
    lcd_1.clear();
    lcd_1.blink();
    delay(500); // Wait for 5000
    millisecond(s)
}
```

TEXT

# **STEP 4 :**

# **SIMULASI**



**ENTER**

**LINK  
TINKERCAD**