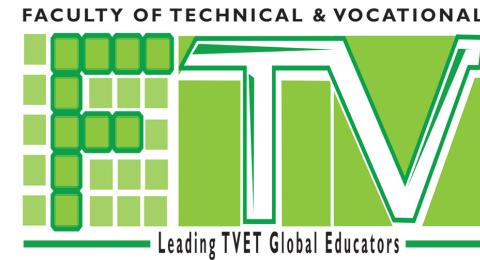




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## MODUL PEMBELAJARAN ELEKTRONIK DENGAN KEFUNGSIAN PENDERIA

# 1.0 PAPARAN LCD 1.2 STROLLING

MULAKAN



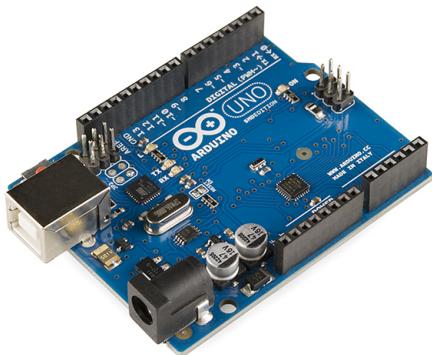
DI SEDIAKAN OLEH AMIN, DR IRDAYANTI

**STEP 1:**

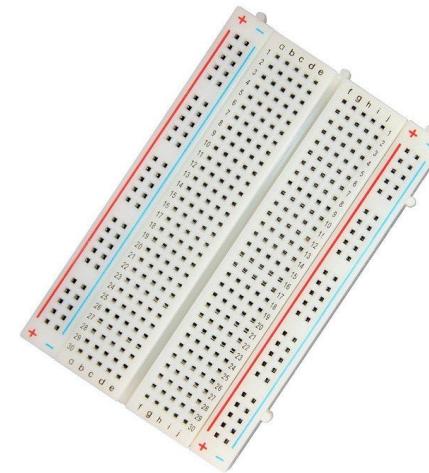
**SEDIAKAN SEMUA KOMPONEN**



**SLIDESWITCH**



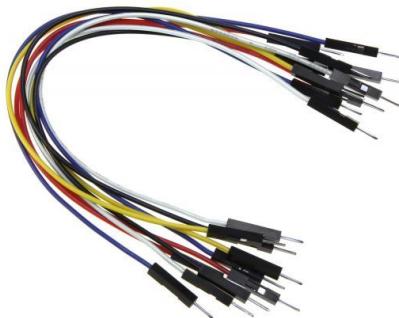
**ARDUINO UNO R3**



**BREADBOARD**



**LCD 16 X 2 (I2C)**



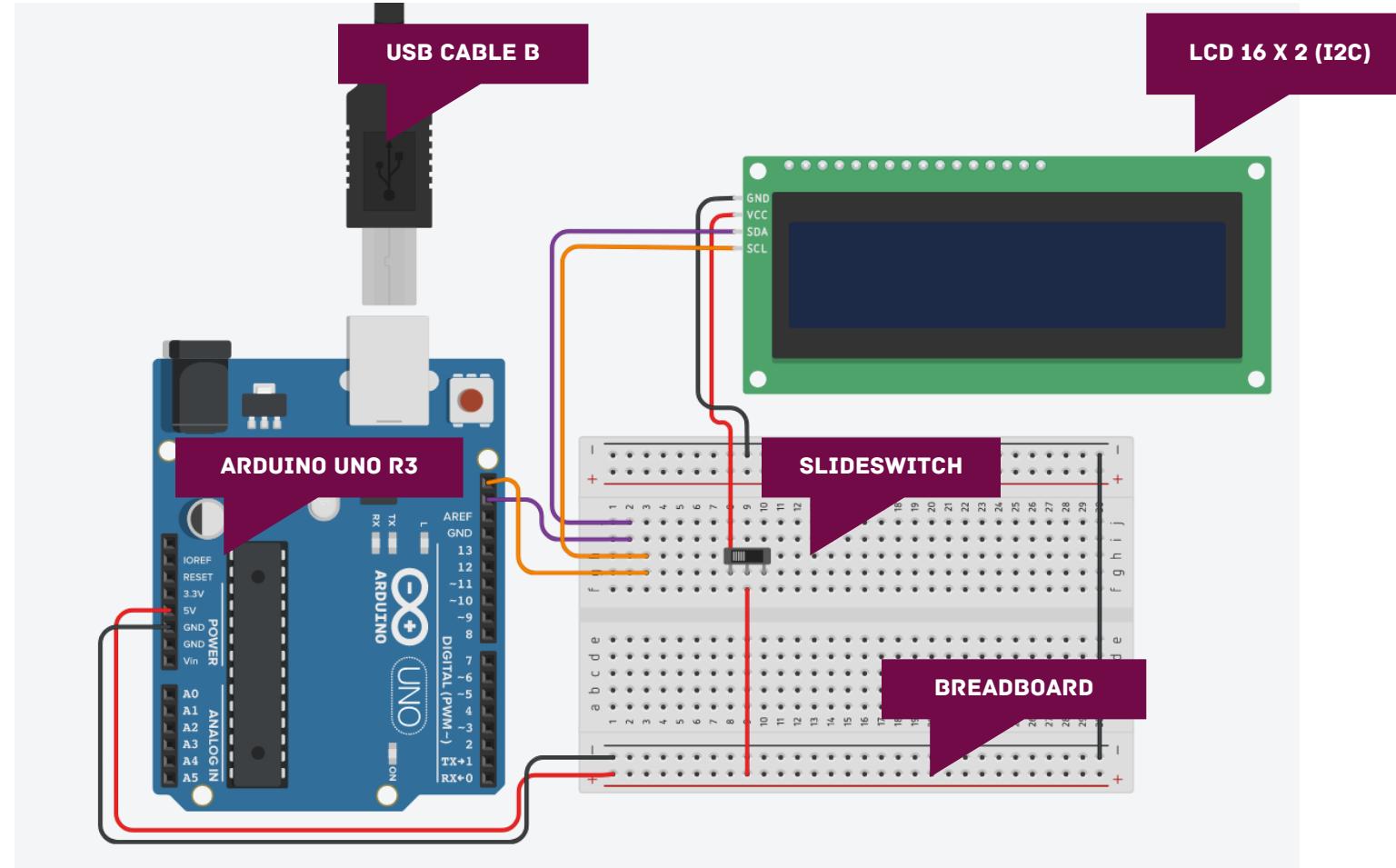
**MALE TO MALE / FEMALE TO MALE  
JUMPER WIRES-10 PIECES**

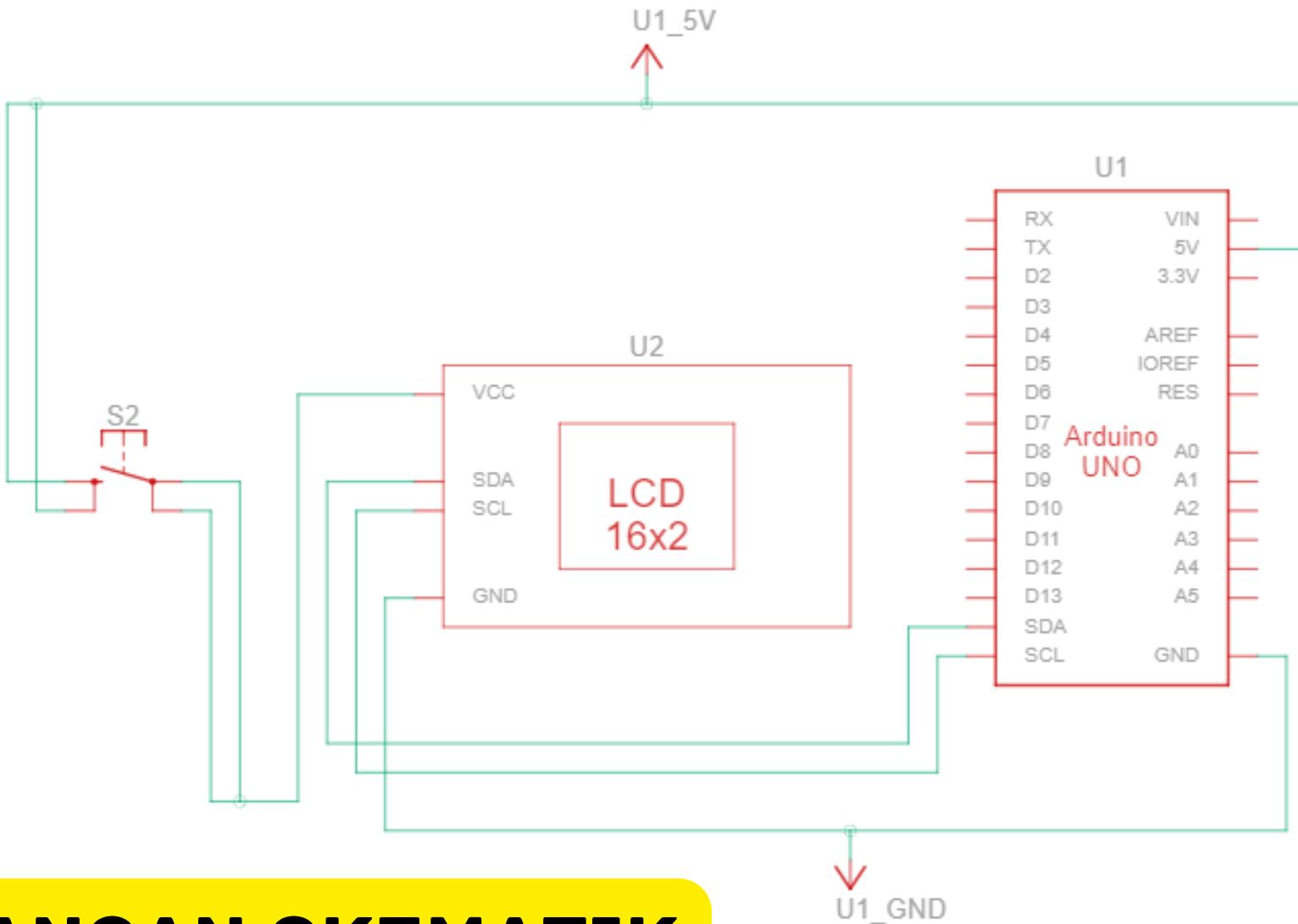


**USB CABLE B**

**STEP 2 :**

**GAMBAR RAJAH SAMBUNGAN**





## PANDANGAN SKEMATIK

# **STEP 3 :**

# **CODDING ARDUINO UNO**

title block comment LiquidCrystal\_I2C lcd\_1(0x27, 16, 2)

on start

configure LCD 1 type to I2C (PCF8574) with address 32

on LCD 1 turn on the backlight

forever

on LCD 1 turn on autoscrolling

set position on LCD 1 to column 0 row 0

print to LCD 1 HELLO

set position on LCD 1 to column 0 row 1

print to LCD 1 AWAK APA KHABAR

wait 1 milliseconds

on LCD 1 turn off autoscrolling

wait 1 secs

on LCD 1 turn on autoscrolling

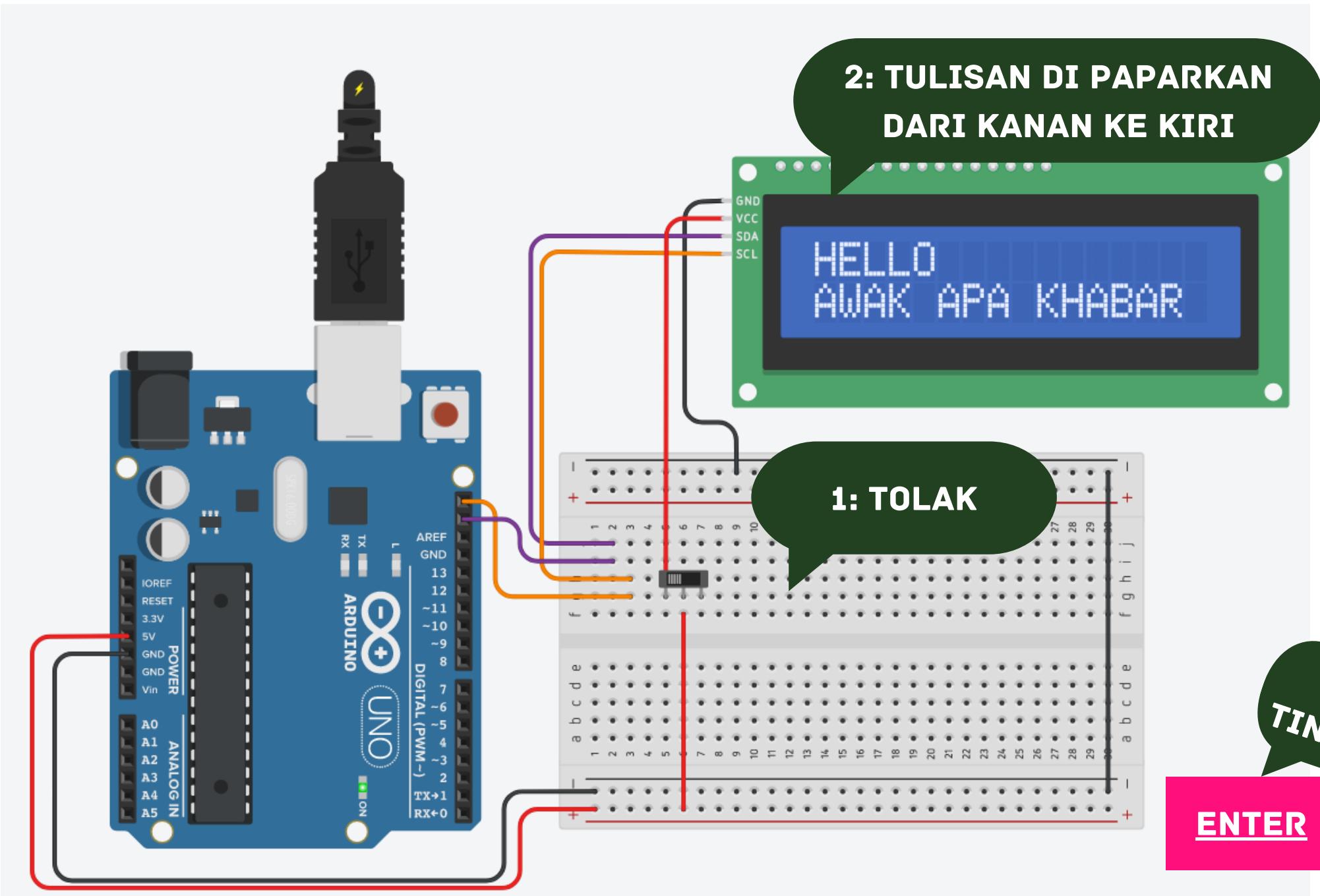
BLOCKS

// 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.autoscroll();  
lcd\_1.setCursor(0, 0);  
lcd\_1.print("HELLO");  
lcd\_1.setCursor(0, 1);  
lcd\_1.print("AWAK APA KHABAR");  
delay(1); // Wait for 1 millisecond(s)  
lcd\_1.noAutoscroll();  
delay(1000); // Wait for 1000 millisecond(s)  
lcd\_1.autoscroll();  
}

TEXT

# **STEP 4 :**

# **SIMULASI**



**ENTER**

**LINK  
TINKERCAD**