Interfacing Joystick dengan Arduino

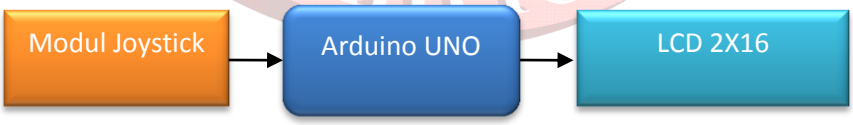
Sistem Kerja Alat:

Arduin0o UNO membaca data output X dan Y dari joystick yang hasilnya ditampilkan pada LCD.

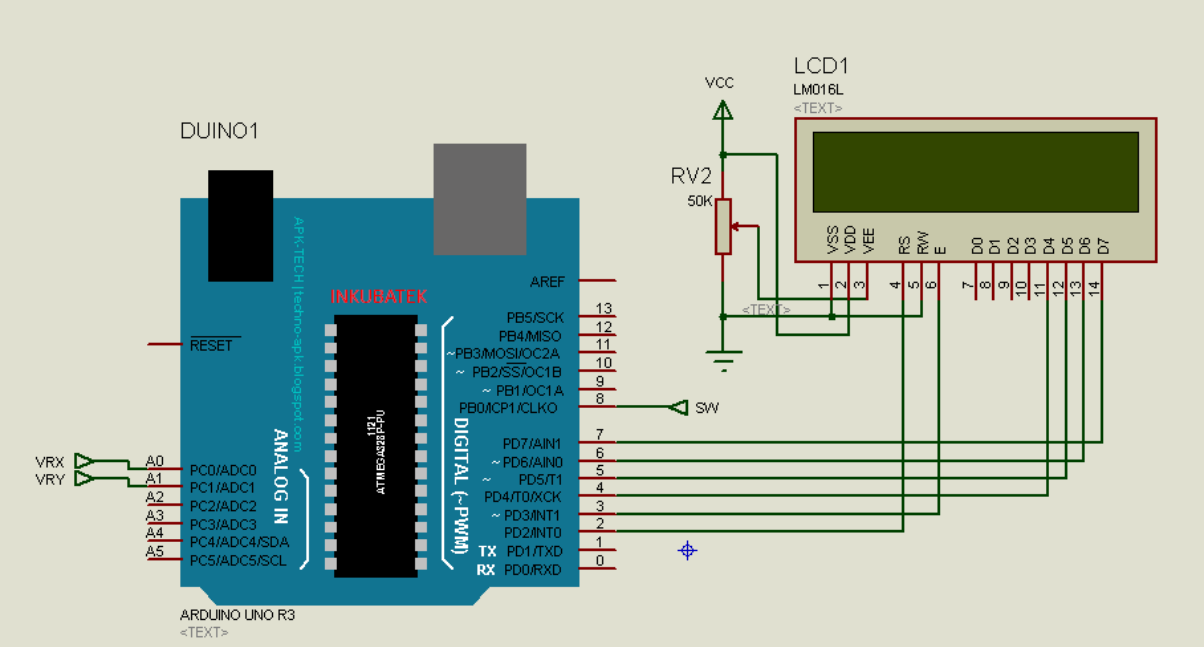
Kebutuhan Hardware :

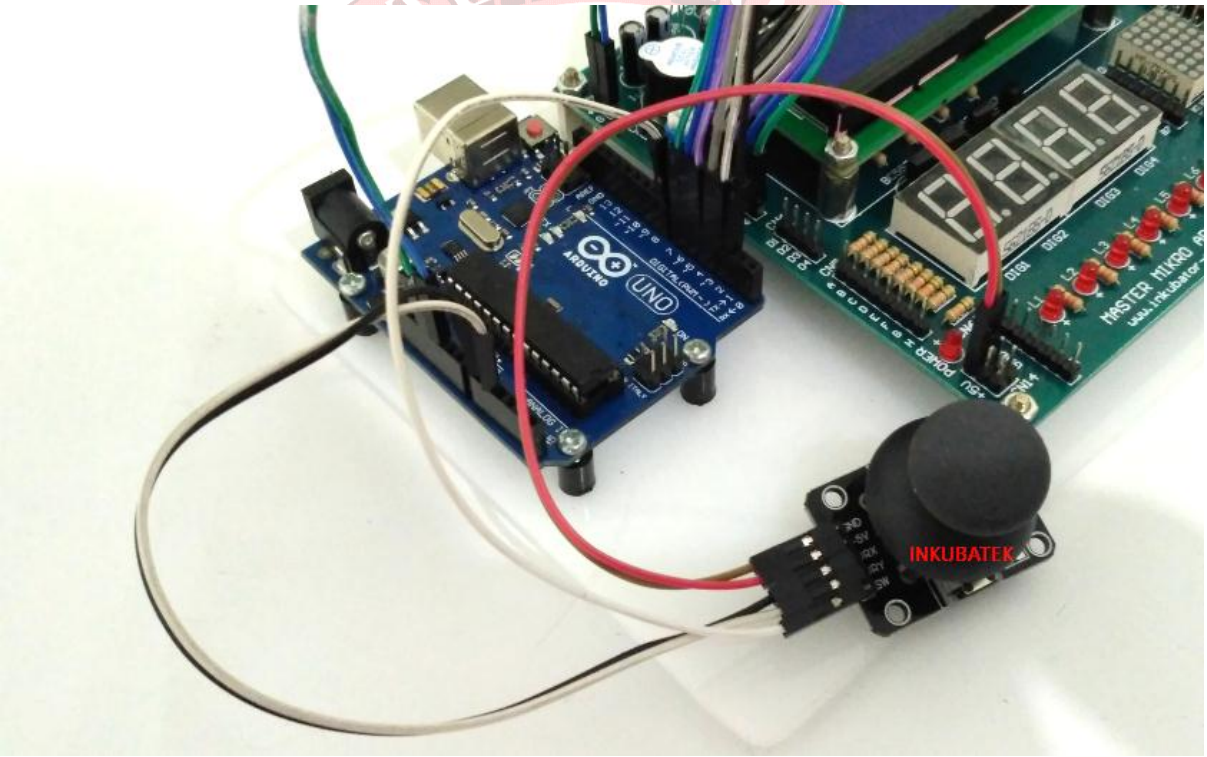
- Modul Joystick
- Modul LCD 2x16
- Modul Arduino UNO
- Power supply +9Volt

Diagram Blok:



Schematics





Koneksi Arduino UNO dengan LCD:

Pin ARDUINO	LCD
2	RS
3	EN
4	D4
5	D5

6	D6
7	D7

Koneksi Modul Joystick:

Pin Modul Joystick	Pin ARDUINO
GND	GND
+5V	5V
VRX	A0
VRY	A1
SW	8

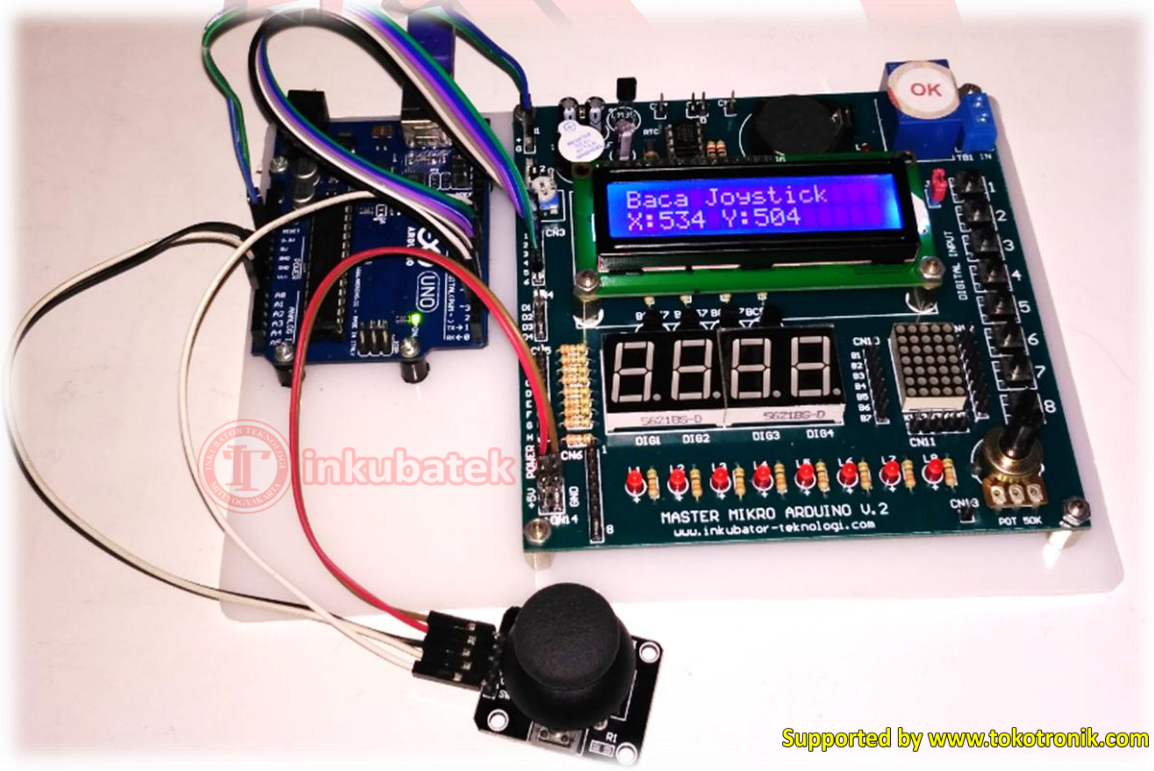
Source Code/Sketch :

```
/*************************************
 * Program : Project 31. Interfacing Joystick dg Arduino
 * Input   : Sensor Joystick
 * 125 Proyek Arduino Inkubatek
 * www.tokotronik.com
 * ************************************/
#include <LiquidCrystal.h>
LiquidCrystal lcd(2, 3, 4, 5, 6, 7);
int joyX = A0;
int joyY = A1;
int value1 = 0;
int value2 = 0;
int SW = 8;
int led = 0;

void setup() {
  pinMode(13, OUTPUT);
  pinMode(SW, INPUT);
  digitalWrite(SW, HIGH);
  lcd.begin(16, 2);
  lcd.print("Baca Joystick");
}

void loop() {
  value1 = analogRead(joyX);
  value2 = analogRead(joyY);
```

```
lcd.setCursor(0 ,1);
//X=46 --> 1018
lcd.print("X:");
lcd.print(value1);
//Y=46 --> 1018
lcd.print(" Y:");
lcd.print(value2);
lcd.print("  ");
if(digitalRead(SW)==0){
  delay(100);
  led=!led;
  digitalWrite(13, led);
}
delay(100);
}
```

Jalannya Alat :

LCD menampilkan nilai X dan Y, sedangkan tombol/SW akan menghidupkan dan mematikan LED 13 Arduino.



[Uji coba memakai hardware "Master Mikro ARDUINO V2" :
http://tokotronik.com/master-mikro-arduino-v2/]