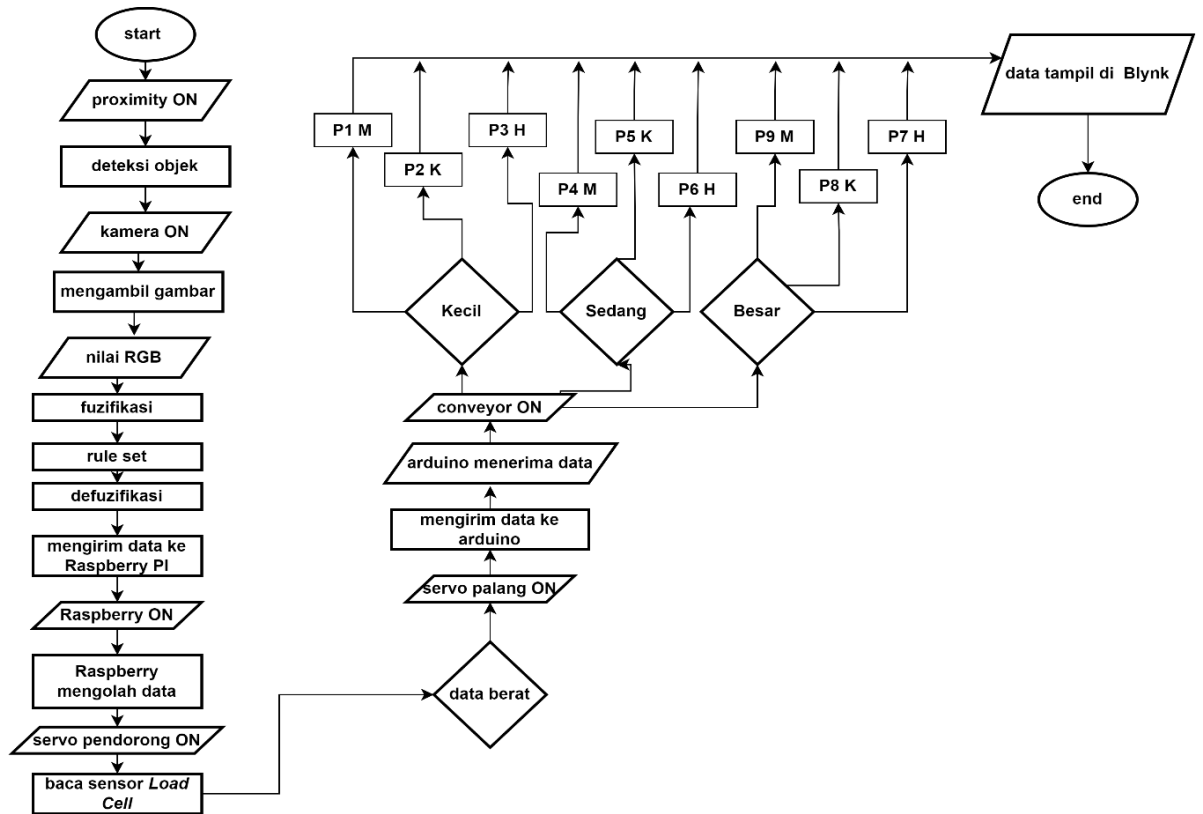


LAMPIRAN

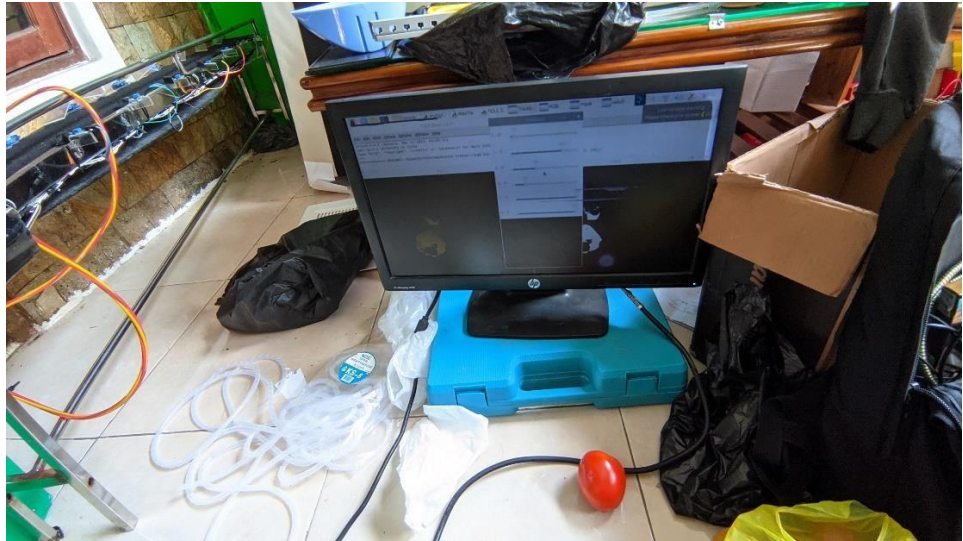
Tabel RGB

No	Mentah		Setengah Matang		Matang	
	R	G	R	G	R	G
1	66,5	81,59	106,21	60,039	113,72	20,54
2	75,8	83,76	106,43	59,499	118,32	26,01
3	83,6	92,39	106,43	59,499	117,10	20,83
4	76,0	87,53	86,28	74,162	111,35	32,41
5	85,6	91,91	118,0	49,667	115,52	34,80
6	86,1	95,42	112,8	38,222	117,42	26,27
7	66,8	76,15	105,4	33,885	112,24	27,51
8	80,4	81,99	120,5	46,863	112,42	28,21
9	69,7	80,73	120,58	46,863	129,9	34,14
10	59,5	74,10	116,50	47,635	130,58	25,33



Flowchart Keseluruhan Alat Sortir Buah Tomat



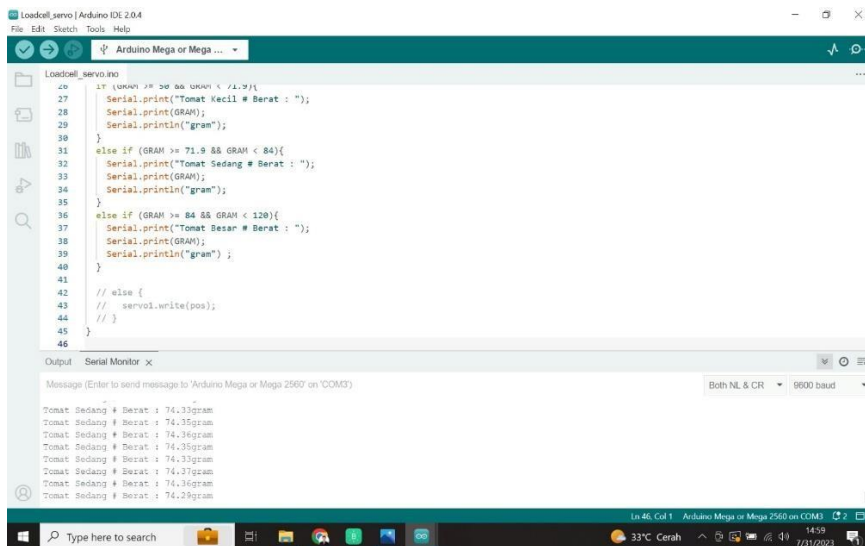
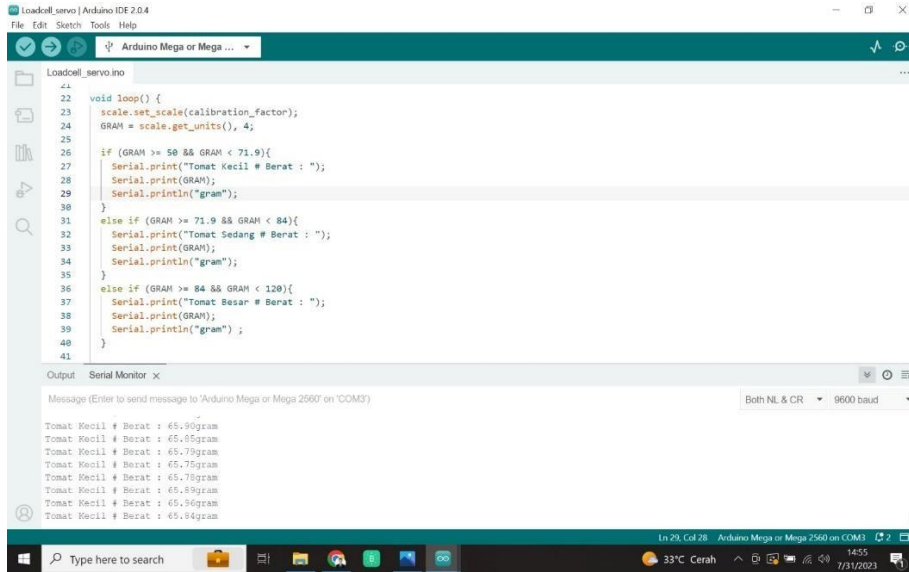


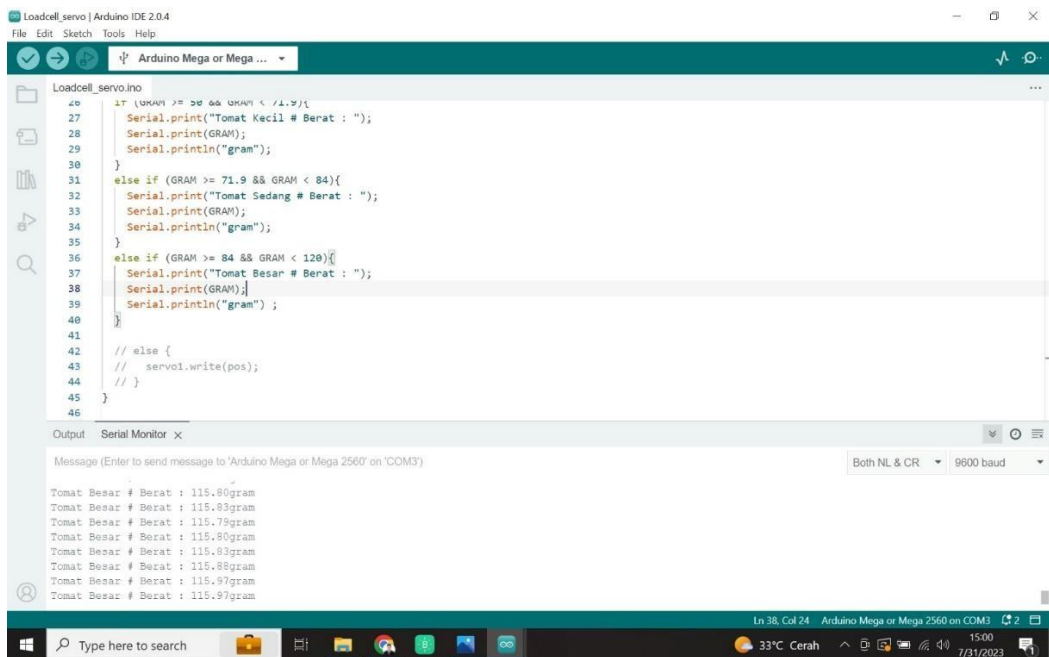
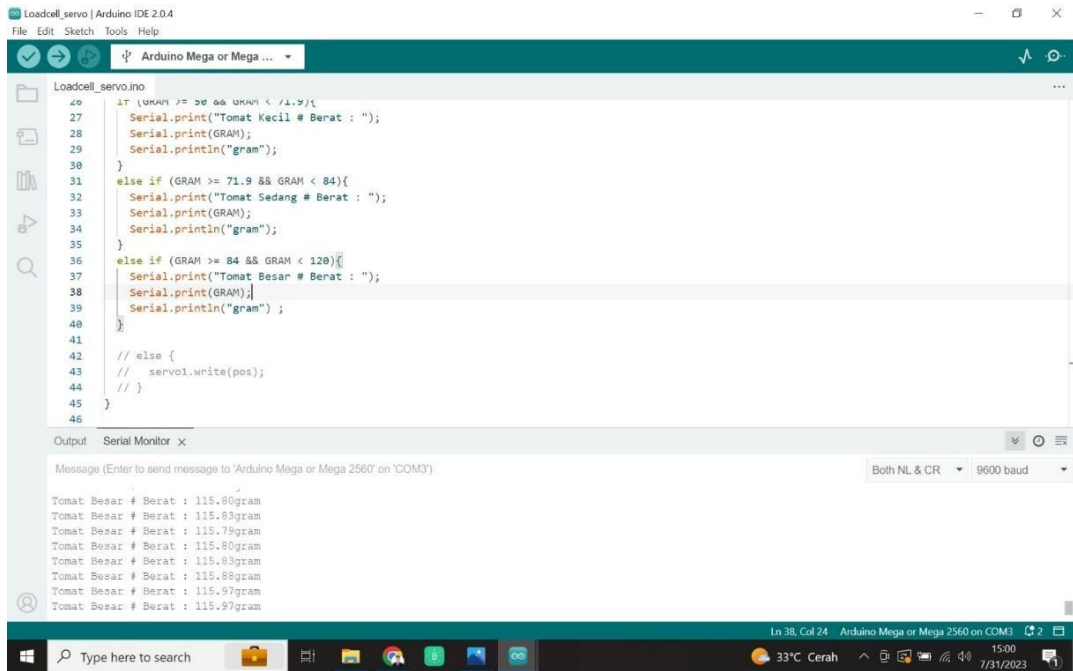


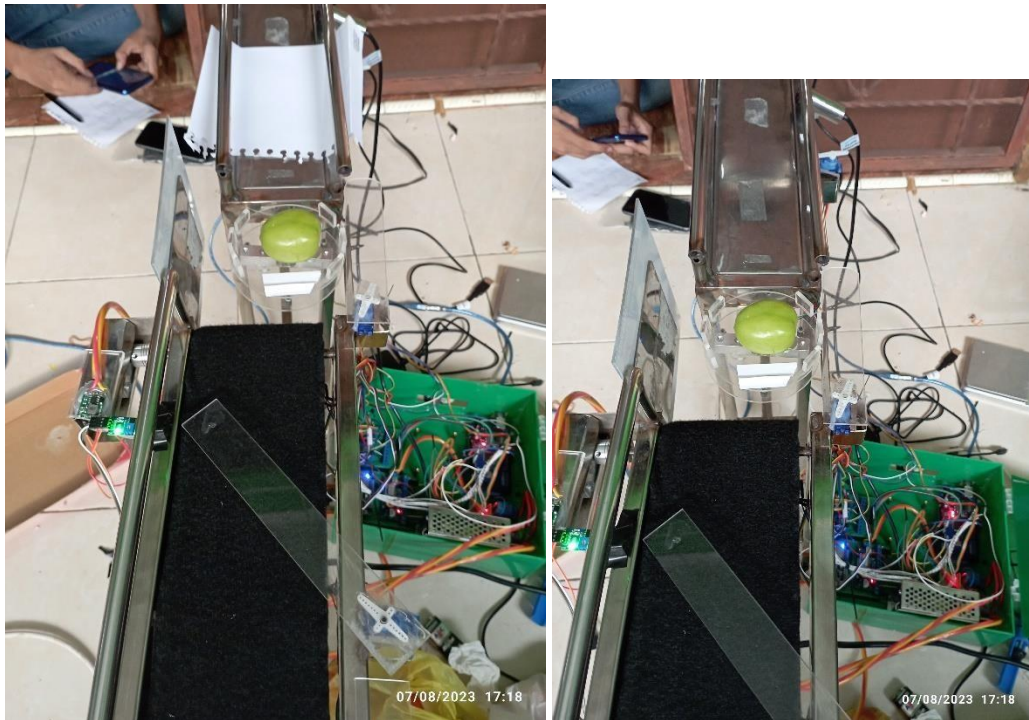


Gambar Timbangan Biasa

```
Loadcell_servo | Arduino IDE 2.0.4
File Edit Sketch Tools Help
Arduino Mega or Mega ...
Loadcell_servo.ino
22
23 scale.set_scale(calibration_factor);
24 GRAM = scale.get_units(), 4;
25
26 if (GRAM >= 50 && GRAM < 71.9){
27   Serial.print("Tomat Kecil # Berat : ");
28   Serial.print(GRAM);
29   Serial.println("gram");
30 }
31 else if (GRAM >= 71.9 && GRAM < 84){
32   Serial.print("Tomat Sedang # Berat : ");
33   Serial.print(GRAM);
34   Serial.println("gram");
35 }
36 else if (GRAM >= 84 && GRAM < 120){
37   Serial.print("Tomat Besar # Berat : ");
38   Serial.print(GRAM);
39   Serial.println("gram");
40 }
41 }
Output Serial Monitor x
Message (Enter to send message to 'Arduino Mega or Mega 2560' on 'COM3')
Both NL & CR 9600 baud
Tomat Kecil # Berat : 66.27gram
Tomat Kecil # Berat : 69.34gram
Tomat Kecil # Berat : 68.31gram
Tomat Kecil # Berat : 69.34gram
Tomat Kecil # Berat : 68.30gram
Tomat Kecil # Berat : 68.30gram
Tomat Kecil # Berat : 66.29gram
Tomat Kecil # Berat : 69.34gram
Tomat Kecil # Berat : 68.31gram
```







Gambar Saat Kondisi Motor Servo 3 50 derajat

```

NodeMCU_Sortir | Arduino 1.8.18
File Edit Sketch Tools Help

NodeMCU_Sortir
#define BLYNK_PRINT Serial
#include <Wire.h>
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
#include <SoftwareSerial.h>
SoftwareSerial noDemcu(D0, D1); // RX, TX al a0

char auth[] = "JTRRU2800DZ0FRcvLq4waFhaKhvEKKNL"; //test1
char ssid[] = "MONITA"; //Nama Wifi atau Hotspot
char pass[] = "monita645"; //Password Wifi atau Hotspot

unsigned long previousMillis = 0;
const long interval = 1000;

int harga1, harga2;
int matang, smatang;
BLYNK_WRITE(V11)
{
  matang = param.asInt();
}
BLYNK_WRITE(V12)
{
  smatang = param.asInt();
}

String arrData[9];

int sen1, sen2, sen3, sen4, sen5, sen6, sen7, sen8, sen9;

void setup() {
  //.....

```

Gambar koding NodeMCU connect ke Blynk


```
Nodemcu_Sortir | Arduino 1.8.18
File Edit Sketch Tools Help

Nodemcu_Sortir

void setup() {
  Serial.begin(9600);
  nodemcu.begin(9600);
  Blynk.begin(auth, ssid, pass, "iot.serangkota.go.id", 8080);
  delay(10);
}

void loop() {
  Blynk.run();

  harga1 = (matang * 25);
  Blynk.virtualWrite(V13, harga1);

  harga2 = (smatang * 25);
  Blynk.virtualWrite(V14, harga2);

  unsigned long currentMillis = millis(); // baca waktu saat ini
  if (currentMillis - previousMillis >= interval) {
    previousMillis = currentMillis;
    //baca data
    String data = "";
    while (nodemcu.available() > 0) {
      data += char(nodemcu.read());
    }
  }
}
```

```
Nodemcu_Sortir | Arduino 1.8.18
File Edit Sketch Tools Help

Nodemcu_Sortir

//buang spasi data
data.trim();

//uji data
if (data != "") {
  int index = 0;
  for (int i=0; i<= data.length(); i++){
    char delimiter = '#';
    if (data[i] != delimiter)
      arrData[index] += data[i];
    else
      index++;
  }

  if (index == 9) {
    //tampilkan nilai sensor ke serial monitor
    Serial.println("Data1 : " + arrData[0]);
    Serial.println("Data2 : " + arrData[1]);
    Serial.println("Data3 : " + arrData[2]);
    Serial.println("Data4 : " + arrData[3]);
    Serial.println("Data5 : " + arrData[4]);
    Serial.println("Data6 : " + arrData[5]);
    Serial.println("Data7 : " + arrData[6]);
    Serial.println("Data8 : " + arrData[7]);
    Serial.println("Data9 : " + arrData[8]);
  }
}
```

```
Nodemcu_Sortir | Arduino 1.8.18
File Edit Sketch Tools Help

Nodemcu_Sortir

sen1 = arrData[0].toInt();
sen2 = arrData[1].toInt();
sen3 = arrData[2].toInt();
sen4 = arrData[3].toInt();
sen5 = arrData[4].toInt();
sen6 = arrData[5].toInt();
sen7 = arrData[6].toInt();
sen8 = arrData[7].toInt();
sen9 = arrData[8].toInt();

if (sen1 == HIGH) {
  Blynk.virtualWrite(V1, HIGH);
} else if (sen1 == LOW) {
  Blynk.virtualWrite(V1, LOW);
}

if (sen2 == HIGH) {
  Blynk.virtualWrite(V2, HIGH);
} else if (sen2 == LOW) {
  Blynk.virtualWrite(V2, LOW);
}

if (sen3 == HIGH) {
  Blynk.virtualWrite(V3, HIGH);
} else if (sen3 == LOW) {
  Blynk.virtualWrite(V3, LOW);
}

if (sen4 == HIGH) {
```

```
Nodemcu_Sortir | Arduino 1.8.18
File Edit Sketch Tools Help

Nodemcu_Sortir

if (sen3 == HIGH) {
  Blynk.virtualWrite(V3, HIGH);
} else if (sen3 == LOW) {
  Blynk.virtualWrite(V3, LOW);
}

if (sen4 == HIGH) {
  Blynk.virtualWrite(V4, HIGH);
} else if (sen4 == LOW) {
  Blynk.virtualWrite(V4, LOW);
}

if (sen5 == HIGH) {
  Blynk.virtualWrite(V5, HIGH);
} else if (sen5 == LOW) {
  Blynk.virtualWrite(V5, LOW);
}

if (sen6 == HIGH) {
  Blynk.virtualWrite(V6, HIGH);
} else if (sen6 == LOW) {
  Blynk.virtualWrite(V6, LOW);
}

if (sen7 == HIGH) {
  Blynk.virtualWrite(V4, HIGH);
} else if (sen7 == LOW) {
  Blynk.virtualWrite(V4, LOW);
}
}
```

