

# LAMPIRAN

## **Kode Program Arduino**

```
// wayan
#include <HX711.h>
#include <Servo.h>
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 16, 2); ;

#define DOUT
#define CLK

#define IN3 3
#define IN4 4
#define ENB 5

HX711 Loadcell;
float calibration_factor1 = 668;

Servo wayan1;
Servo wayan2;
Servo wayan3;
void setup() {
  Serial.begin(9600);
  Loadcell.begin(A1, A2);
  lcd.begin(16, 2);
  Loadcell.set_scale(calibration_factor1);
  Loadcell.tare();
```

```

lcd.init();
lcd.backlight();

wayan1.attach(11);
wayan2.attach(12);
wayan3.attach(10);
wayan2.write(180);
wayan2.write(180);
wayan1.write(180);
pinMode(IN3, OUTPUT);
pinMode(IN4, OUTPUT);
pinMode(ENB, OUTPUT);
lcd.setCursor(0, 0);
lcd.print(" Wayan Aditya");
lcd.setCursor(0, 1);
lcd.print(" 1811060026 ");
delay(1000);
lcd.clear();
}

void loop() {
  long reading = Loadcell.get_units(10);
  Serial.println("Mulai");
  lcd.setCursor(0, 0);
  lcd.print(" Letakan Plastik");
  lcd.setCursor(1, 1);
  lcd.print("Berat =");

```

```
lcd.print(reading);  
lcd.print(" ");  
lcd.print("Gr");  
delay (250);  
Serial.println(reading);
```

```
if (reading <= 30)  
{  
  wayan3.write(0);  
  delay(500);  
  wayan3.write(90);  
  delay(400);  
  delay(1000);  
  wayan1.write(0);  
  delay (400);  
  wayan1.write(180);  
  delay (400);  
  lcd.clear();  
}  
else if (reading >= 30)  
{  
  wayan1.write(180);  
  lcd.setCursor(1, 1);  
  lcd.print("Berat =");  
  lcd.print(reading);  
  lcd.print(" ");  
  lcd.print("Gr");  
  delay(2000);
```

```
lcd.clear();
```

```
lcd.setCursor(5, 0);
```

```
lcd.print("Proses");
```

```
Serial.print("Proses");
```

```
lcd.setCursor(3, 1);
```

```
lcd.print("Pengemasan");
```

```
delay(1000);
```

```
digitalWrite(IN3, HIGH);
```

```
digitalWrite(IN4, LOW);
```

```
digitalWrite(ENB, 150);
```

```
delay(450);
```

```
digitalWrite(IN3, LOW);
```

```
digitalWrite(IN4, LOW);
```

```
digitalWrite(ENB, LOW);
```

```
delay(450);
```

```
wayan2.write(20);
```

```
delay(4000);
```

```
wayan2.write(180);
```

```
delay(2000);
```

```
//konveyer jalan 2
```

```
digitalWrite(IN3, HIGH);  
digitalWrite(IN4, LOW);  
digitalWrite(ENB, 150);  
delay(350);
```

```
digitalWrite(IN3, LOW);  
digitalWrite(IN4, LOW);  
digitalWrite(ENB, LOW);  
delay(350);
```

```
//pres 2  
wayan2.write(20);  
delay(4000);  
wayan2.write(180);  
delay(2000);
```

```
//jalan buang  
digitalWrite(IN3, HIGH);  
digitalWrite(IN4, LOW);  
digitalWrite(ENB, 100);  
delay(2000);
```

```
digitalWrite(IN3, LOW);  
digitalWrite(IN4, LOW);  
digitalWrite(ENB, LOW);  
delay(2000);
```

```
    lcd.clear();  
    delay(2500);  
}  
else {  
    wayan1.write(180);  
}  
}
```