

Koding Program

```
#include <Servo.h>

#include <SoftwareSerial.h>

#define trigPin 7

#define echoPin 6

Servo myservo;

SoftwareSerial mySerial(9, 10);

char msg;

int L1 = 11;

int L2 = 12;

int L3 = 13;

int sensor = 4;

int state = LOW;

int val = 0;

int pos = 0;

void setup() {

  Serial.begin (9600);

  pinMode(trigPin, OUTPUT);

  pinMode(L1, OUTPUT);

  pinMode(L2, OUTPUT);

  pinMode(L3, OUTPUT);

  pinMode(sensor, INPUT);

  pinMode(echoPin, INPUT);
```

```
mySerial.begin(9600);

myservo.attach(5);

}

void loop() {

//Membaca Sensor PIR

val = digitalRead(sensor);

//Mengukur Jarak

long duration, distance;

digitalWrite(trigPin, LOW);

delayMicroseconds(2);

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

duration = pulseIn(echoPin, HIGH);

distance = (duration/2) / 29.1;

if (val == HIGH) {

digitalWrite(L1, LOW);

digitalWrite(L3, LOW);

digitalWrite(L2, HIGH);

if (state == LOW) {

state = HIGH;

//Membuka tutup Kotak sampah

for (pos = 50; pos <=180; pos+= 1){
```

```
myservo.write(pos);

delay(15);

}

delay(5000);

}

}

else {

digitalWrite(L1, LOW);

digitalWrite(L2, LOW);

digitalWrite(L3, HIGH);

if (state == HIGH) {

state = LOW;

//Menutup tutup kotak sampah

for (pos = 180; pos >=50; pos -= 1){

myservo.write(pos);

delay(15);

}

Serial.print( distance );

Serial.print(" Cm");

Serial.println();

delay(100);

if (distance <8){

digitalWrite(L1, HIGH);

digitalWrite(L2, LOW);

digitalWrite(L3, LOW);
```

```
delay(1000);

myservo.detach();

Serial.println("mengirim sms");

mySerial.println("AT+CMGF=1");

delay(100);

mySerial.println("AT+CMGS=\"+6281532771947\\r"); // Nomor Tujuan

delay(100);

mySerial.println("Kotak Sampah loby penuh , Tolong dibersihkan"); // isi

pesan

mySerial.println((char)26);

delay(1000);

}

}

}

}
```