Bahan Ajar

Modul

PEMROGRAMAN TERSTRUKTUR

Kode Matakuliah: SKO21411

C For Arduino

Penyusun:
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PROGRAM STUDI SISTEM KOMPUTER

FAKULTAS ILMU KOMPUTER

INSTITUT INFORMATIKA DAN BISNIS DARMAJAYA

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DAFTAR ISI

JOBSHEET 5
Decision IF-ELSE (Servo)

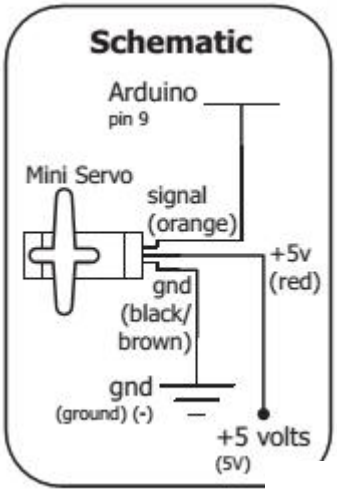
KOMPONEN

Breadboar

Motor Servo

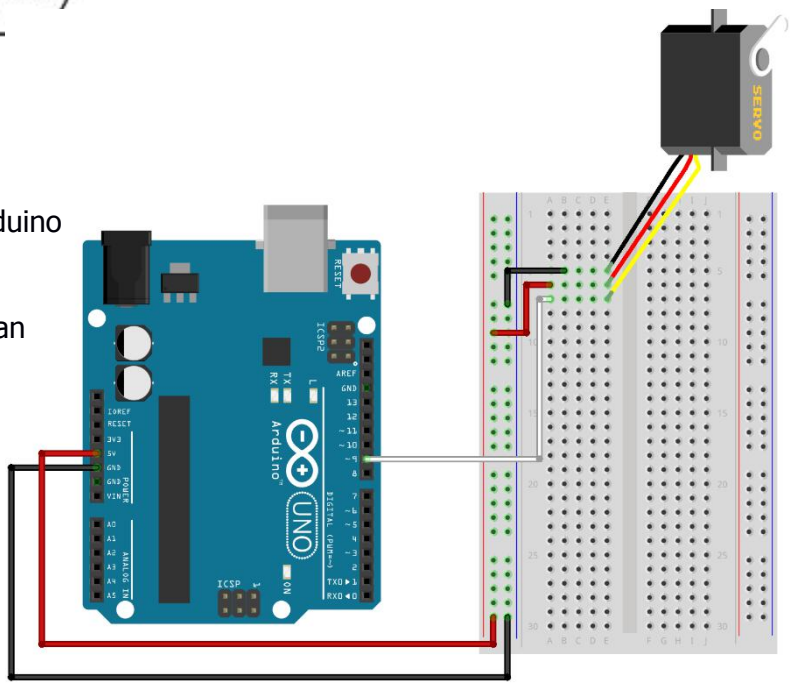
Kabel Jumper

SKEMA



PERAKITAN

Hubungkan Pin 9 Arduino ke kaki servor pada papan breadboard dan pin tegangan 5v dan pin ground seperti pada gambar.



KODE PROGRAM

```
#include <Servo.h>
Servo myservo;
// create object to control a servo
int pos = 0;
// variable to store the servo position

void setup() {
myservo.attach(9); // attaches the servo on pin 9 to the servo object
}

void loop() {
for(pos = 0; pos < 180; pos += 1)
// goes from 0 degrees to 180 degrees

{
// in steps of 1 degree
myservo.write(pos); // tell servo to go to position in variable 'pos'
delay(15); // waits 15ms for the servo to reach the position
}

for(pos = 180; pos>=1; pos-=1)
// goes from 180 degrees to 0 degrees
{
myservo.write(pos); // tell servo to go to position in variable 'pos'
delay(15); // waits 15ms for the servo to reach the position
}
}
```

LATIHAN

Lakukan memprogram motor Servo dengan menggunakan beberapa fitur varibel IF-ELSE bahasa C for Arduino

LAPORAN HASIL PERCOBAAN: