Bahan Ajar

Modul
PEMROGRAMAN

Kode Matakuliah: SKO20411

C For Arduino

Penyusun:
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PROGRAM STUDI SISTEM KOMPUTER

FAKULTAS ILMU KOMPUTER

INSTITUT INFORMATIKA DAN BISNIS DARMAJAYA

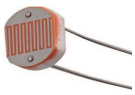
2022

DAFTAR ISI

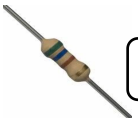
JOBSHEET 10
Logical Operator (LDR)

KOMPONEN


Breadboar


Photoresisto r

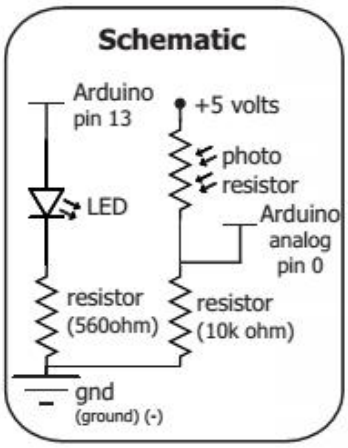

R


R 560


LED

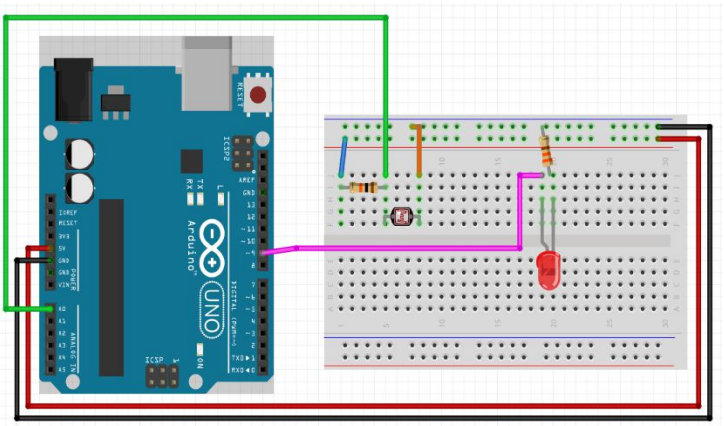
Kabel Jumper

SKEMA



PERAKITAN

Hubungkan Pin 9 Arduino ke kaki led pada papan breadboard dan pin tegangan dan pin ground seperti pada gambar



KODE PROGRAM

```
/*
A simple programme intensity of an LED
*/
//PhotoResistor Pin
int lightPin = 0; //the analog pin the
int ledPin = 9;//the pin the LED is connected to
void setup()
{
pinMode(ledPin, OUTPUT); //sets the led pin to
//output
}
void loop()
{
int lightLevel = analogRead(lightPin); //Read the
// lightlevel
lightLevel = map(lightLevel, 0, 900, 0, 255);
//adjust the value 0 to 900 to
lightLevel = constrain(lightLevel, 0, 255);
//make sure the value is betwween 0 and 255
analogWrite(ledPin, lightLevel); //write the value
}
```

LATIHAN

Lakukan memprogram nyala LED dengan menggunakan LDR melalui beberapa OPERATOR LOGIKA (AND, OR, NOT) dalam bahasa C for Arduino.

LAPORAN HASIL PERCOBAAN: