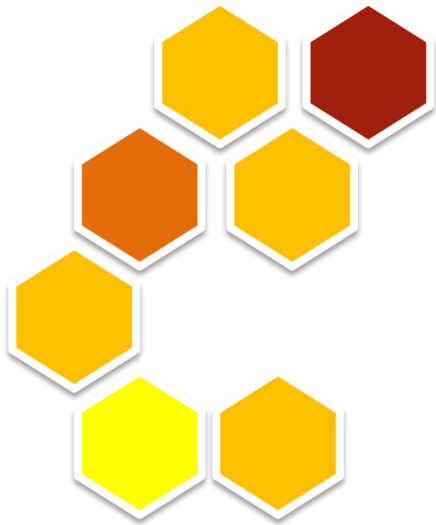


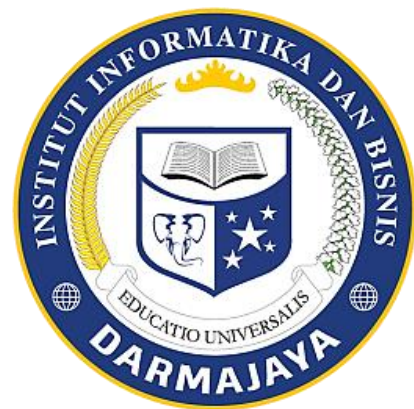
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# Modul PEMROGRAMAN

Kode Matakuliah: SKO20411

C For Arduino



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**PROGRAM STUDI SISTEM KOMPUTER  
FAKULTAS ILMU KOMPUTER  
INSTITUT INFORMATIKA DAN BISNIS DARMAJAYA**

2022

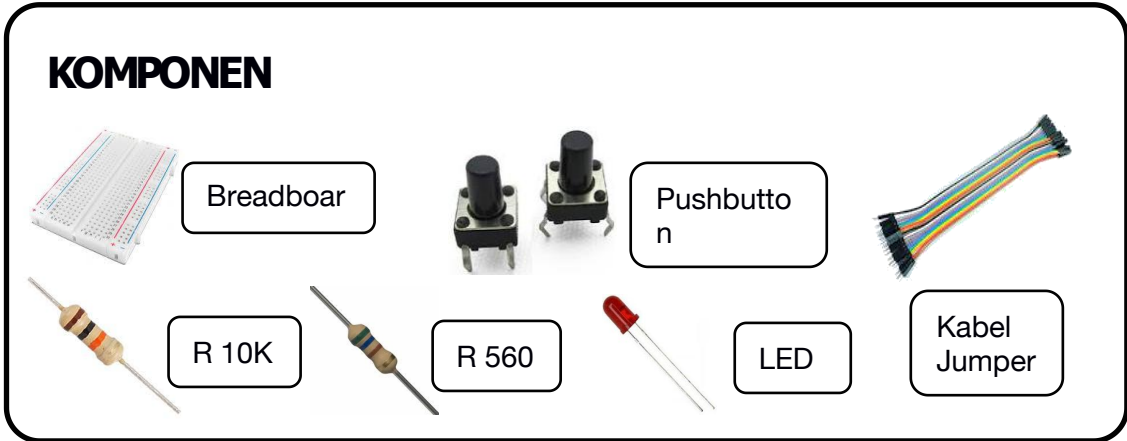
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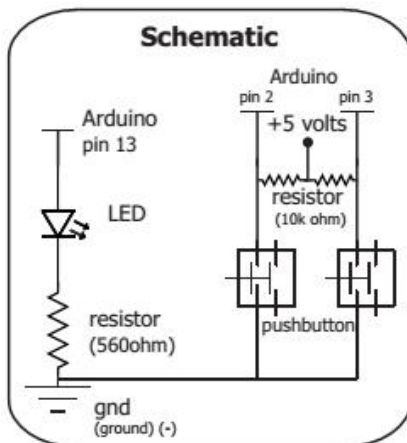
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## Function in C Arduino (Pushbuttons)

### KOMPONEN

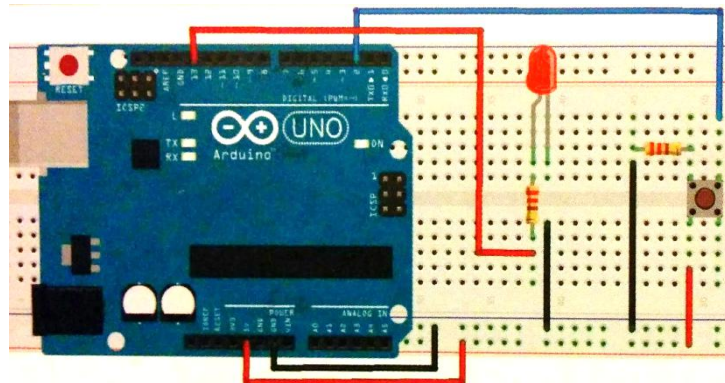


### SKEMA



### PERAKITAN

Hubungkan Pin 2 Arduino ke kaki pushbuton pada papan breadboard dan pin tegangan dan pin ground seperti pada gambar.



## KODE PROGRAM

```
/*
 * Turns on and off a light emitting diode(LED) connected to digital
 * pin 13, when pressing a pushbutton attached to pin 7.
 */
int ledPin = 13; // choose the pin for the LED
int inputPin = 2; // choose the input pin (for a pushbutton)
int val = 0; // variable for reading the pin status

void setup() {
  pinMode(ledPin, OUTPUT); // declare LED as output
  pinMode(inputPin, INPUT); // declare pushbutton as input
}

void loop(){
  val = digitalRead(inputPin); // read input value
  if (val == HIGH) { // check if the input is HIGH
    digitalWrite(ledPin, LOW); // turn LED OFF
  } else {
    digitalWrite(ledPin, HIGH); // turn LED ON
  }
}
```

---

## LATIHAN

Lakukan memprogram nyala LED dengan menggunakan Pushbuttons melalui beberapa FUNCTION dalam bahasa C for Arduino.

LAPORAN HASIL PERCOBAAN: