

LAPORAN RESMI
PRAKTIKUM ORGANISASI DAN ARSITEKTUR KOMPUTER
MODUL II



JUDUL:

Blink LED

Disusun Oleh :

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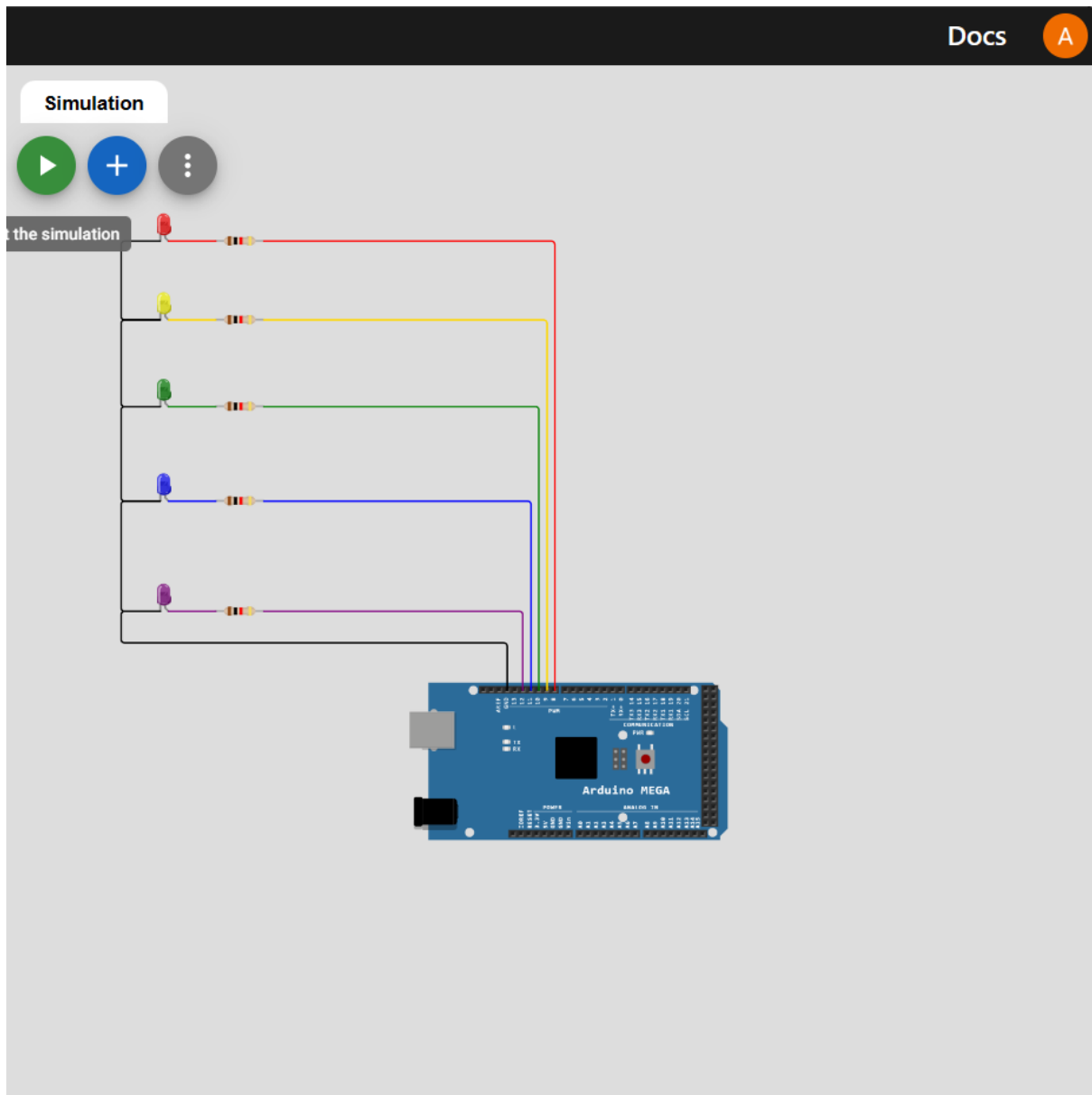
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<https://wokwi.com/projects/378807398197980161>



The screenshot shows the Wokwi IDE interface. At the top, there is a header bar with the Wokwi logo, a 'SAVE' button, a 'SHARE' button, a heart icon, and the text 'Blink LED' with a pencil icon. Below the header, there is a tab bar with 'sketch.ino' selected, 'diagram.json', and 'Library Manager'. The main area displays a C++ sketch for controlling four LEDs. The sketch consists of a `setup()` function and a `loop()` function. The `setup()` function initializes four digital pins (8, 9, 10, 11, 12) as `OUTPUT`. The `loop()` function contains a series of `digitalWrite()` and `delay()` statements that toggle the state of each pin (HIGH and LOW) with a 500ms delay between each state change.

```
1 void setup() {  
2   // put your setup code here, to run once:  
3   pinMode(8, OUTPUT);  
4   pinMode(9, OUTPUT);  
5   pinMode(10, OUTPUT);  
6   pinMode(11, OUTPUT);  
7   pinMode(12, OUTPUT);  
8  
9 }  
10  
11 void loop() {  
12   // put your main code here, to run repeatedly:  
13   digitalWrite(8,HIGH);  
14   delay(500);  
15   digitalWrite(8,LOW);  
16   delay(500);  
17  
18   digitalWrite(9,HIGH);  
19   delay(500);  
20   digitalWrite(9,LOW);  
21   delay(500);  
22  
23   digitalWrite(10,HIGH);  
24   delay(500);  
25   digitalWrite(10,LOW);  
26   delay(500);  
27  
28   digitalWrite(11,HIGH);  
29   delay(500);  
30   digitalWrite(11,LOW);  
31   delay(500);  
32  
33   digitalWrite(12,HIGH);  
34   delay(500);  
35   digitalWrite(12,LOW);
```



Jadi mengapa led tersebut hidup dan mati secara bergantian karena pada void loop saya memerintahkan lampu untuk menyala dan mati secara bergantian, dengan cara membuat digitalwrite (pin digital, HIGH); ini untuk menyala, digitalwrite (pin digital, LOW); ini untuk mematikan.

Kenapa lampu led diletakan di pin digital tidak diletakan di analog ?

Karena lampu led hanya bisa menyala atau mati, jadi itulah alasan diletakan di pin digital