

ACTIVITY REPORT

Name / NIM : Azka Choirul Munna

Title : Pendahuluan Workshop Simulasi Elektronika

Date : 27 Februari 2024

Tools and Material :

- Laptop/Komputer LAB ELINS 3
- Software proteus
- Panduan Bahan Ajar Workshop Simulasi Elektronika (melalui Google Drive)

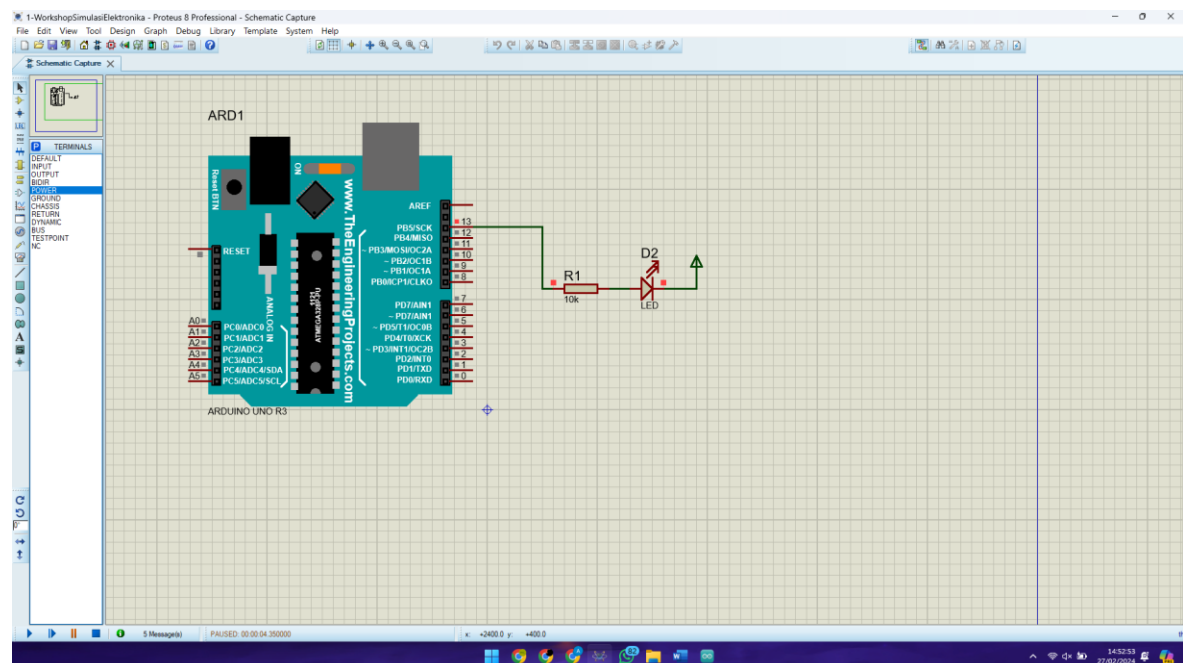
Description of Activities

27 Februari 2024 13.30 – 15.10 WIB, Workshop Simulasi Elektronika pertemuan pertama bertujuan agar setiap mahasiswa sudah melakukan instalasi software proteus, dengan versi proteus yang menyediakan fitur library mikrokontroler, khususnya mikrokontroler Arduino.

Result

Mahasiswa telah melakukan instalasi software proteus versi 8.15 sebelumnya, sehingga pada workshop kali ini, mahasiswa tidak melakukan instalasi ulang software proteus. Proteus versi 8.15 telah mampu untuk melakukan simulasi arduino, contohnya seperti gambar dibawah ini.

Testing Arduino dan LED beserta program file .hex arduino yang dijalankan pada proteus



The screenshot displays the Arduino IDE 2.3.2 environment. The top menu bar includes File, Edit, Sketch, Tools, and Help. The toolbar contains icons for opening files, saving, compiling, uploading, and viewing the serial monitor. The 'Sketch' dropdown menu is open, showing 'Arduino Uno' as the selected board. The main editor window displays the 'Blink.ino' sketch with the following code:

```
1 int ledPin = 13;
2 // the setup function runs once when you press reset or power the board
3 void setup() {
4   // initialize digital pin LED_BUILTIN as an output.
5   pinMode(ledPin, OUTPUT);
6 }
7
8
9 void loop() {
10   int i = 0;
11   int j = 0;
12   for ( i = 0; i < 5; i++){
13     digitalWrite(ledPin, HIGH);
14     delay(1000);
15     digitalWrite(ledPin, LOW);
16     delay(1000);
17   }
18   for ( j = 0; j < 3; j++){
19     digitalWrite(ledPin, HIGH);
20     delay(2000);
21     digitalWrite(ledPin, LOW);
22     delay(2000);
23   }
24 }
25
26
```

The 'Output' window at the bottom shows the compilation process, including the generation of the .elf and .hex files. The status bar at the bottom indicates 'Ln 1, Col 15' and 'Arduino Uno on COM3 [not connected]'. The system tray at the bottom right shows the date and time as 14:52:13 on 27/02/2024.

Conclusion :

Software Proteus versi 8.15 dapat menjalankan library arduino (versi arduino uno r3) dan dapat digunakan untuk mensimulasikan mikrokontroler

Student

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