



CO: Lab 3

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I. PROBLEM STATEMENT

Use the arduino analog input to act as a simple voltmeter with an alarm to indicate that the voltage has exceeded a certain limit.

II. TOOLS

- Buzzer.
- Potentiometer.
- Breadboard.
- Arduino Uno.
- Cables.

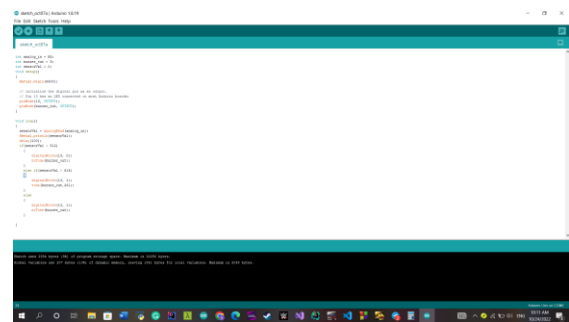
III. CODE DETAILS

The code depends on reading an analog coming from the potentiometer, so we used the `analogRead(analog_in)` function, with `analog_in` an integer equals A5, to use the fifth analog pin. We used the buzzer, so we used functions: `noTone(buzzer_out)` -buzzer_out is another integer having the value five to be connected to the 5th digital output of the

Arduino, to silent the buzzer, and function `tone(buzzer_out,261)` to make the alarm.

We used a delay of 100 ms after we read the input so that we don't mix more than one read at once.

IV. CODE SNIPPETS



[Link of Code on Github.](#)

V. CIRCUIT DIAGRAM

