Readme

Certainly, here's a basic README file for the provided Arduino code:

```markdown

# Alcohol Sensor with Buzzer - README

## Introduction

This Arduino code is designed for a project that involves an alcohol sensor, a digital output pin, and a buzzer. When alcohol is detected by the sensor, the buzzer will be activated, providing an audible alert.

## Hardware Setup

- Connect the alcohol sensor to analog pin A0.

- Connect the digital output of the sensor to digital pin 7.

- Connect a buzzer to digital pin 8.

## Installation and Usage

1. Ensure you have the Arduino IDE installed on your computer.

2. Open the Arduino IDE and create a new sketch.

3. Copy and paste the code provided in the `alcohol\_sensor\_with\_buzzer.ino` file into the sketch.

4. Upload the sketch to your Arduino board.

5. Open the Arduino Serial Monitor (baud rate set to 9600) to monitor the sensor values and detection messages.

## Code Explanation

- The code reads the analog value from the alcohol sensor and the digital value from the digital output pin.

- It prints the analog value to the serial monitor.

- If alcohol is detected (digital value is LOW), it activates the buzzer for 1 second, providing an audible alert.

## Customization

- You can adjust the pin connections and buzzer frequency as needed by modifying the `alcoholSensorPin`, `digitalOutPin`, and `buzzerPin` variables in the code.

- Change the buzzer frequency by modifying the `tone()` function.

## License

This code is provided under an open-source license. You are free to modify and use it for your projects.

## Author

[Saranya M]

Feel free to contact the author if you have any questions or need further assistance.

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Please replace `[Your Name]` with the actual name or contact information of the author of the code. This README file provides a brief overview of the project, instructions for setup.