

The zip file contains 7 files, including part1 (lab2-1), part2(lab2-2), part3 (lab2-3, lab1_1).

Instructions:

Part1(lab2-1): This program configures the sensor. Run it, the sensor will detect temperature and humidity, terminal will output the temperature and humidity in 4 digits after the decimal point.

Part2(lab2-2): This program makes temperature and humidity display on the LCD screen. Run the program, the temperature will display on LCD screen, and after 3 seconds, the humidity will display on the LCD screen. (Also 4 digits after the decimal point)

Part3(lab2-3, lab1_1): Run this program, the LCD display will show "Press Select button...", press the select button, the screen will show "Recording Start", and the user should speak show temperature(humidity), and then the terminal will show "Sending request to Google TTS", after several seconds, terminal will show whatever the user said and if it is "show temperature(humidity)", LCD will display exact temperature(humidity), or LCD will display whatever the user said. All of above will last 3 seconds.