



INSTITUTE OF TECHNOLOGY OF CAMBODIA

DEPARTMENT OF ELECTRICAL AND ENERGY ENGINEERING

Lab Part1 Report: TP-01 (ESP32)

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Task

TP-01:

- 1, create the following task:
 - a, vButtonTask: handle button debounce and states using simple delay
 - b, vL1Task: blink L1 at the rate of 100ms
 - c, vL2Task: blink L2 at the rate of 500ms
- 2, Modify the code for the following function:
 - a, Long press B1 to delete/create vL1Task.
 - b, Press B2 to decrease L2 blink rate by 100ms. Reset back to 500ms when blink rate is equal to 0.

- 1. Create the following tasks:
- a. vButton Task: handle button debounce and states using simple delay.

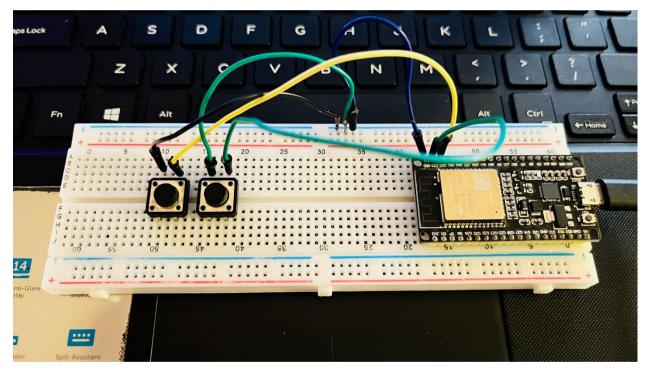


Figure 1: handle button debounce and states using simple delay.

b. vL1 Task: blink L1 at the rate of 100ms

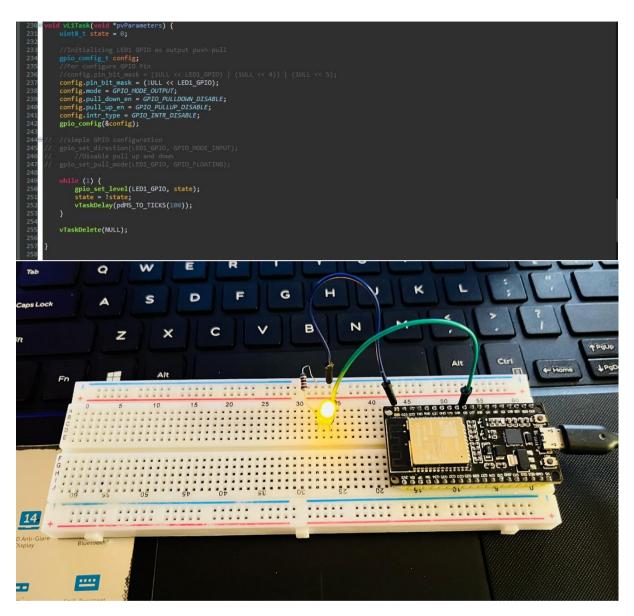


Figure 2: blink L1 at the rate of 100ms

c. vL2 Task: blink L2 at the rate of 500ms

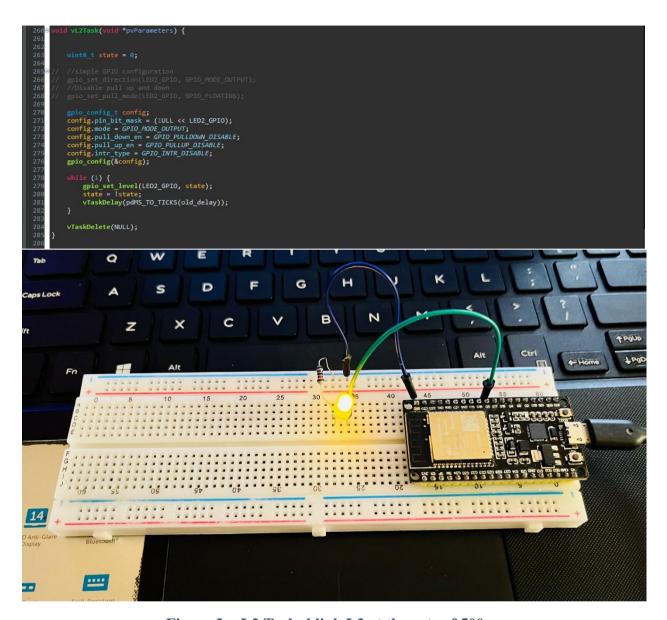


Figure 3: vL2 Task: blink L2 at the rate of 500ms

- 2. Modify the code for the following functions
- a. Long press B1 to delete / create vLTask

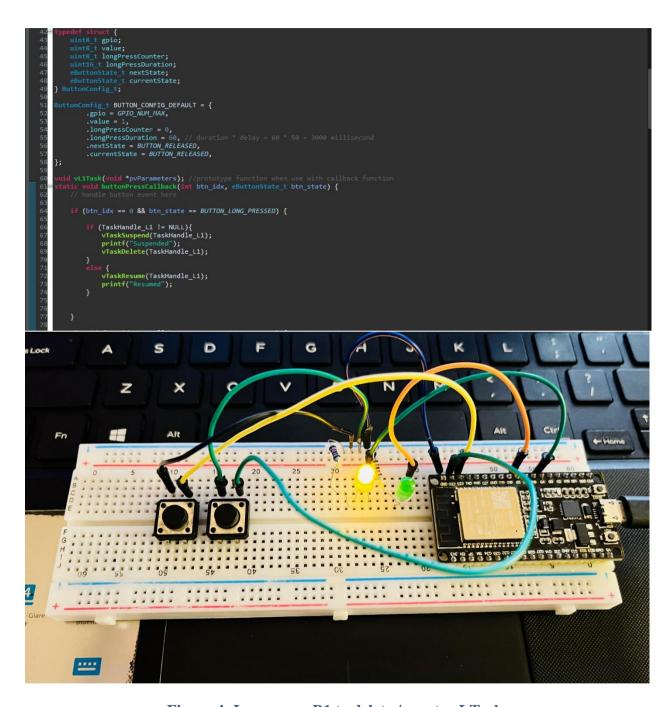


Figure 4: Long press B1 to delete / create vLTask.

b. Press B2 to decrease L2 blink rate by 100ms. Reset back to 500ms when blink rate is equal to 0.

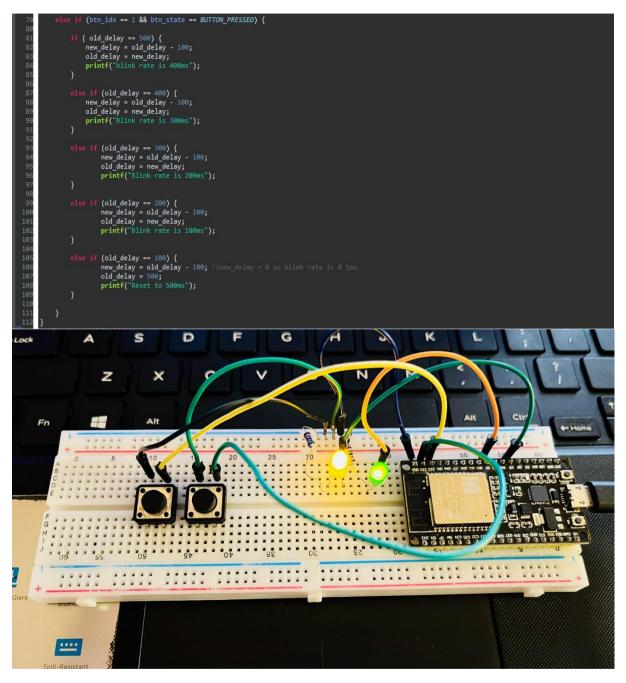


Figure 5: Press B2 to decrease L2 blink rate by 100ms. Reset back to 500ms when blink rate is equal to 0.

Conclusion

After finish TP-01, we understood the process of using **Espressif-IDE** and coding in ESP32. We are also able to configuration the button to handle LED with delay and many more task by coding in **Espressif-IDE**.