

# National Textile University, Faisalabad



## Department of Computer Science

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<b>Class:</b>	BSCS 5th-A
<b>Registration No:</b>	23-NTU-CS-1001
<b>Assignment No 1</b>	Q3
<b>Course Name:</b>	EMBEDDED IOT
<b>Submitted To:</b>	Sir Nasir
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## QUESTION 3

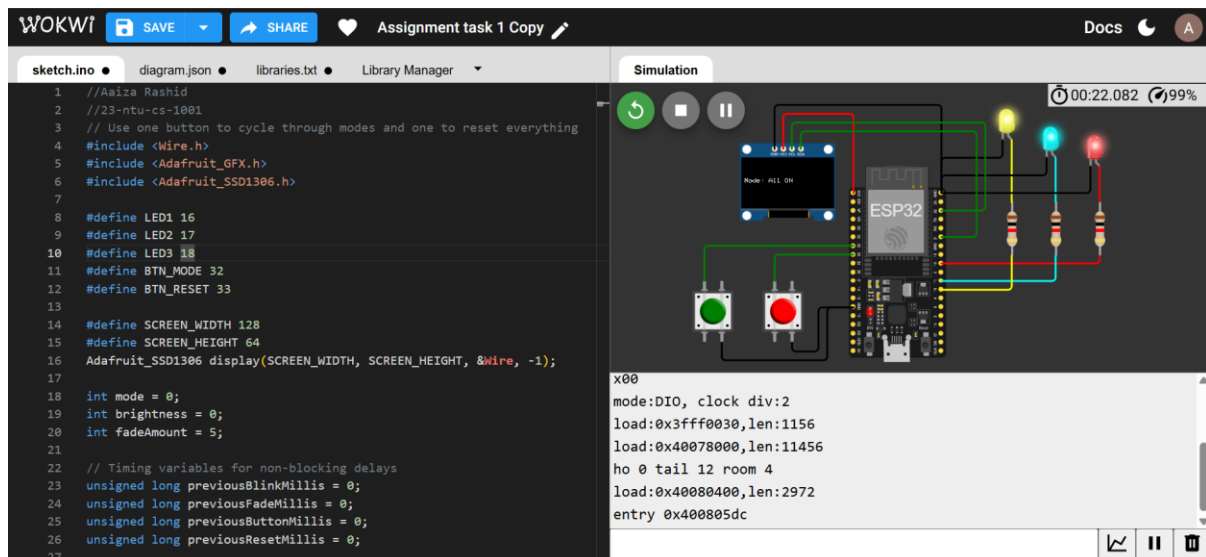
### TASK A

Coding: Use one button to cycle through LED modes (display the current state on

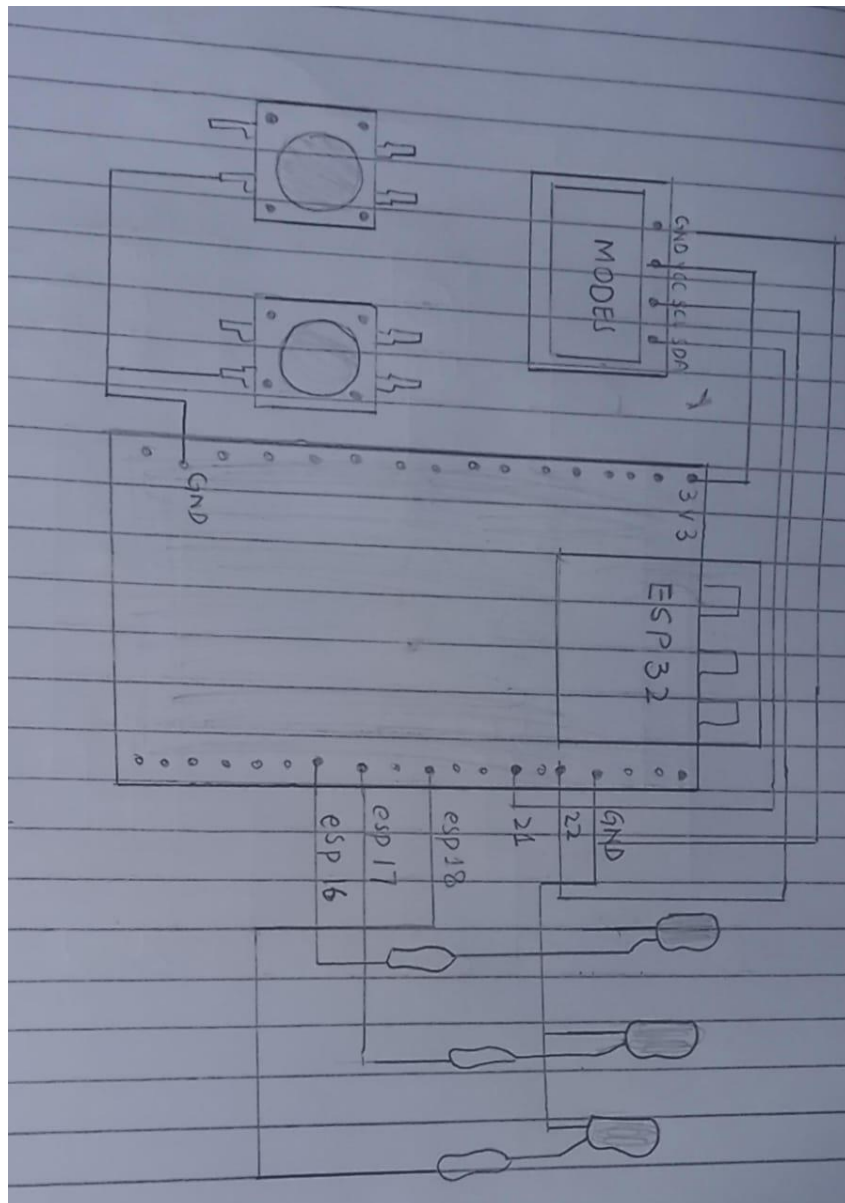
the OLED):

1. Both OFF
2. Alternate blink
3. Both ON
4. PWM fade

Use the second button to reset to OFF



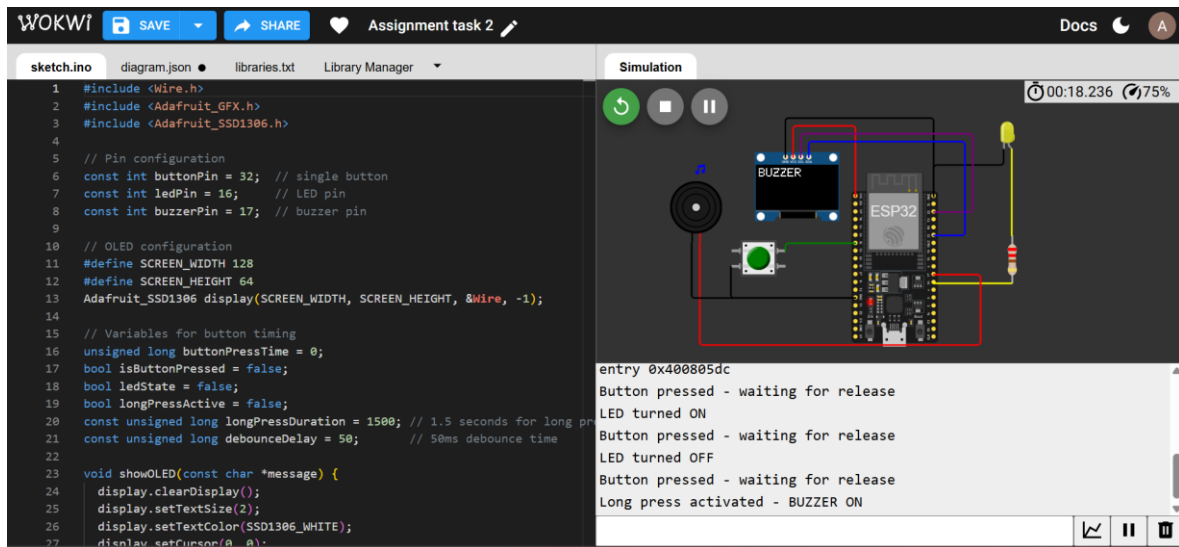
## HAND SKETCH:



## TASK B

Task B — Coding: Use a single button with press-type detection (display the event on the OLED):

- Short press → toggle LED
- Long press ( $> 1.5$  s) → play a buzzer tone



## HAND SKETCH:

