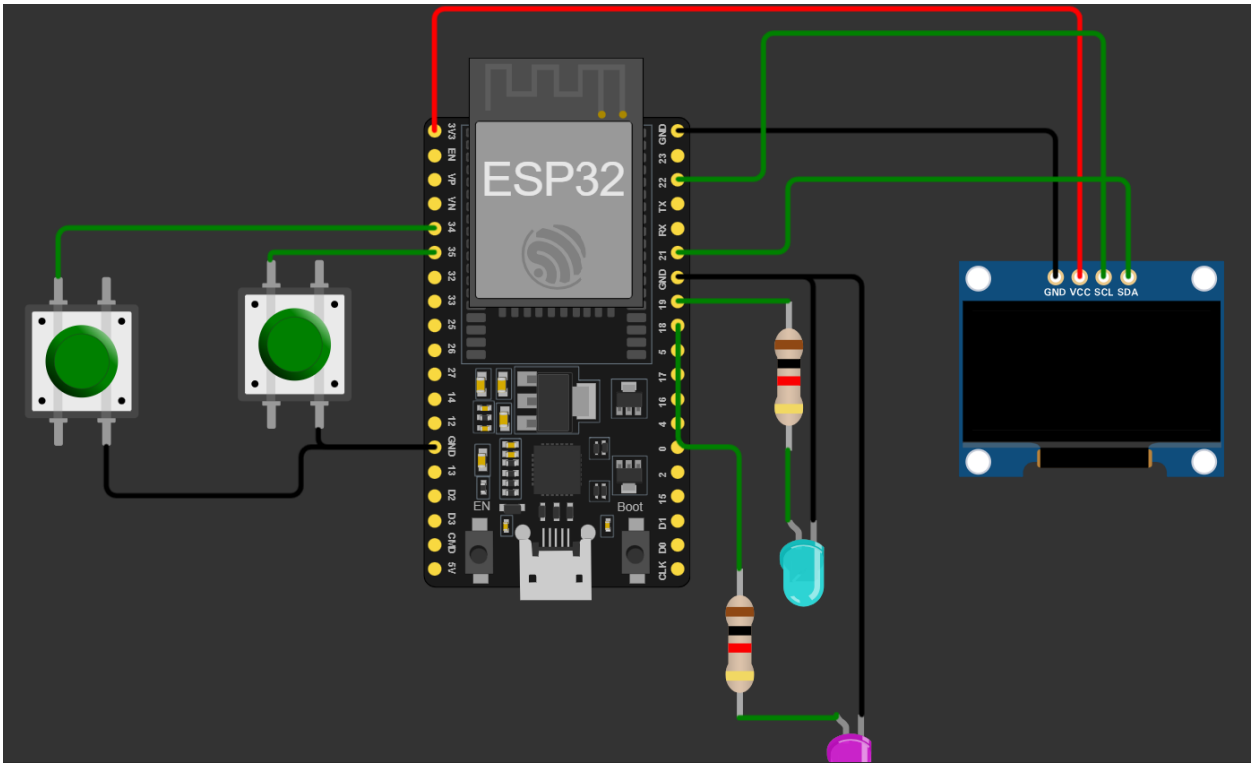
Name:	Muhammad Ibtisam Butt
Reg No:	23-NTU-CS-1269
Section:	BSAI^{4TH}
Subject	Embedded IOT
Submitted To:	Sir. Nasir Mehmood

Assignment-01

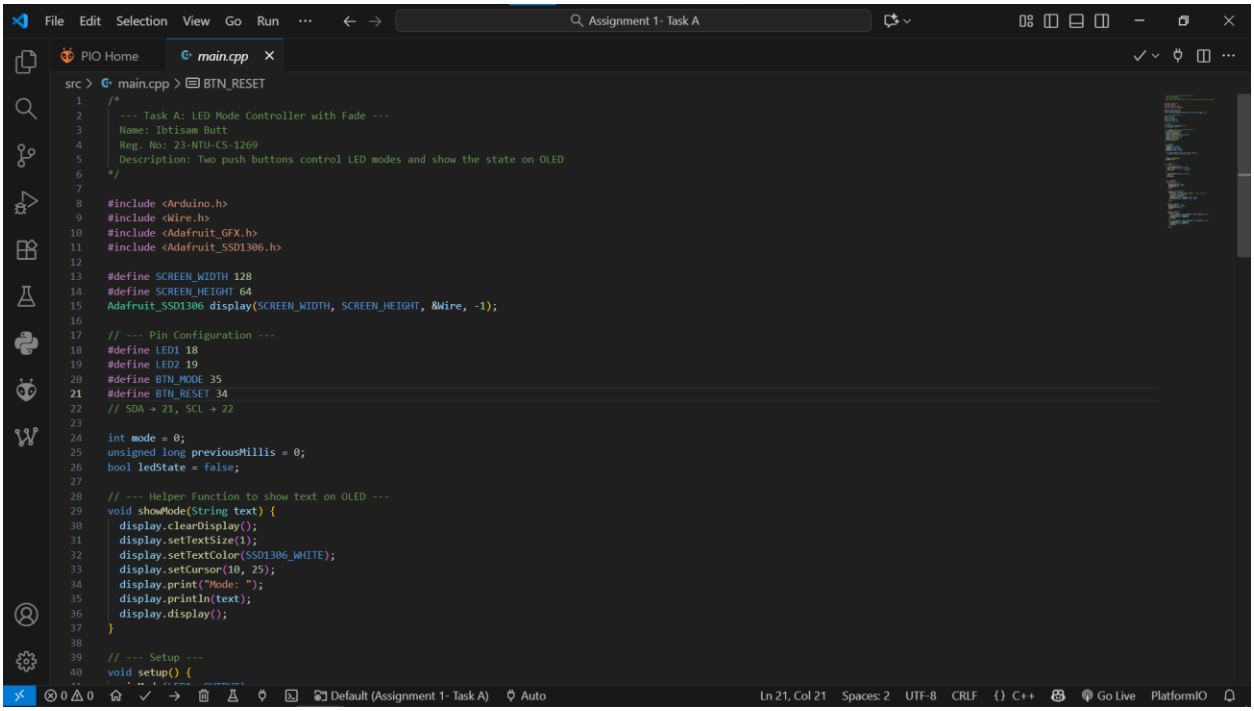
Question 3

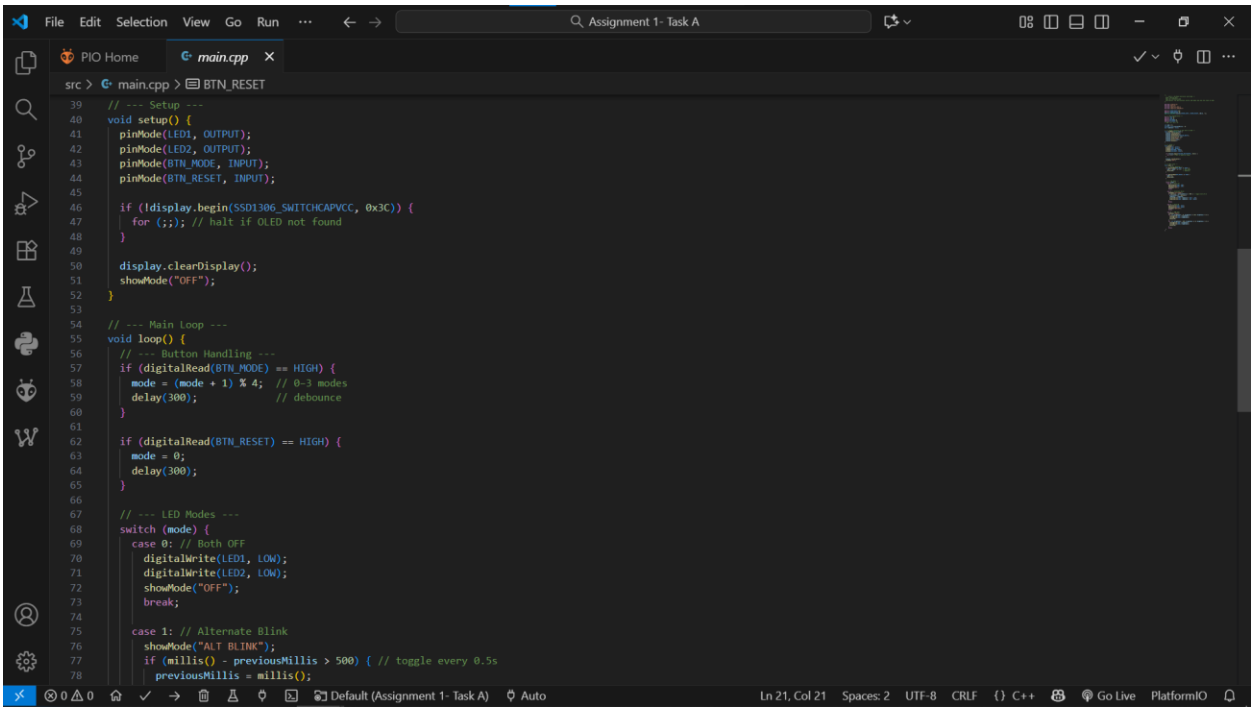
Task A:

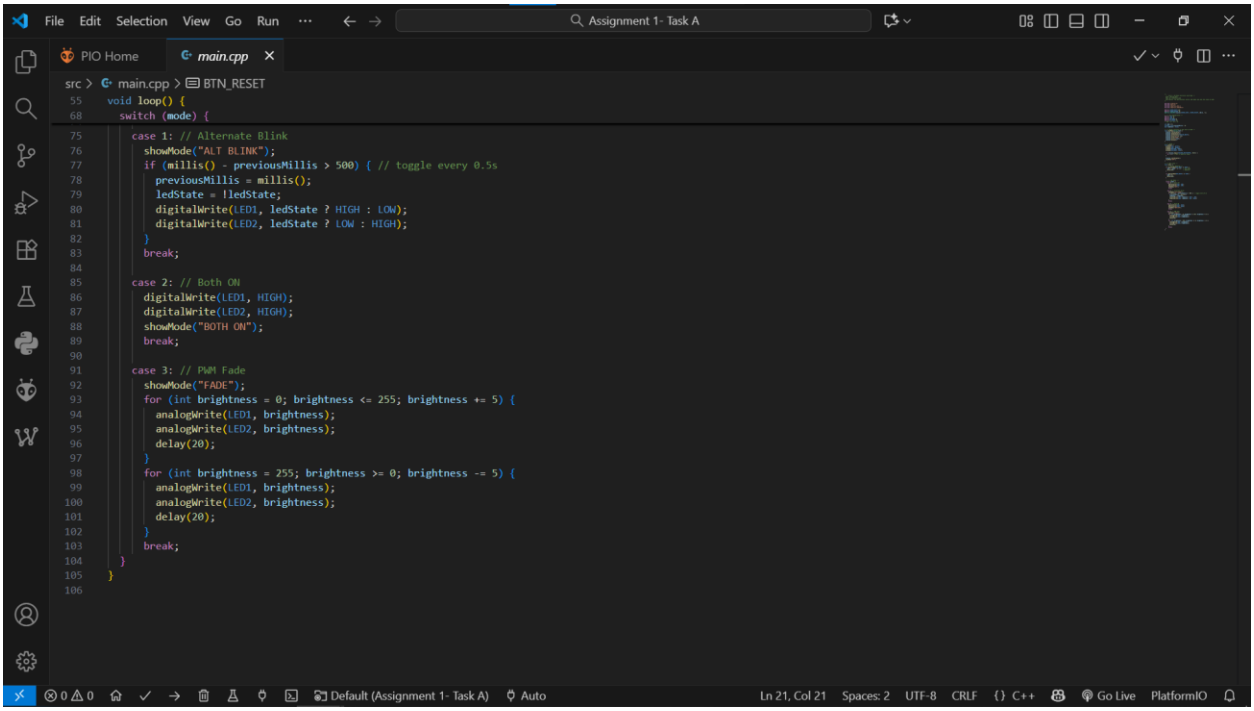
1. **Wokwi:** https://wokwi.com/projects/445901865090999297
2. **Circuit Diagrams:**



3. Code Snippets:



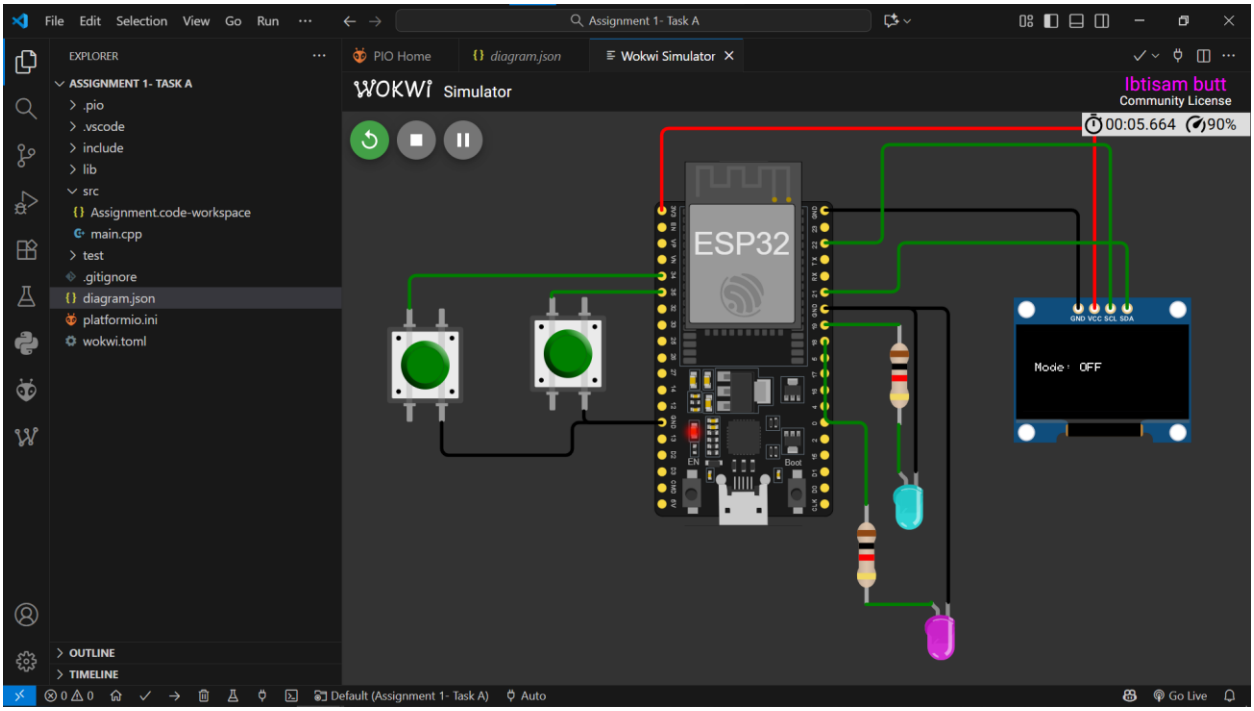


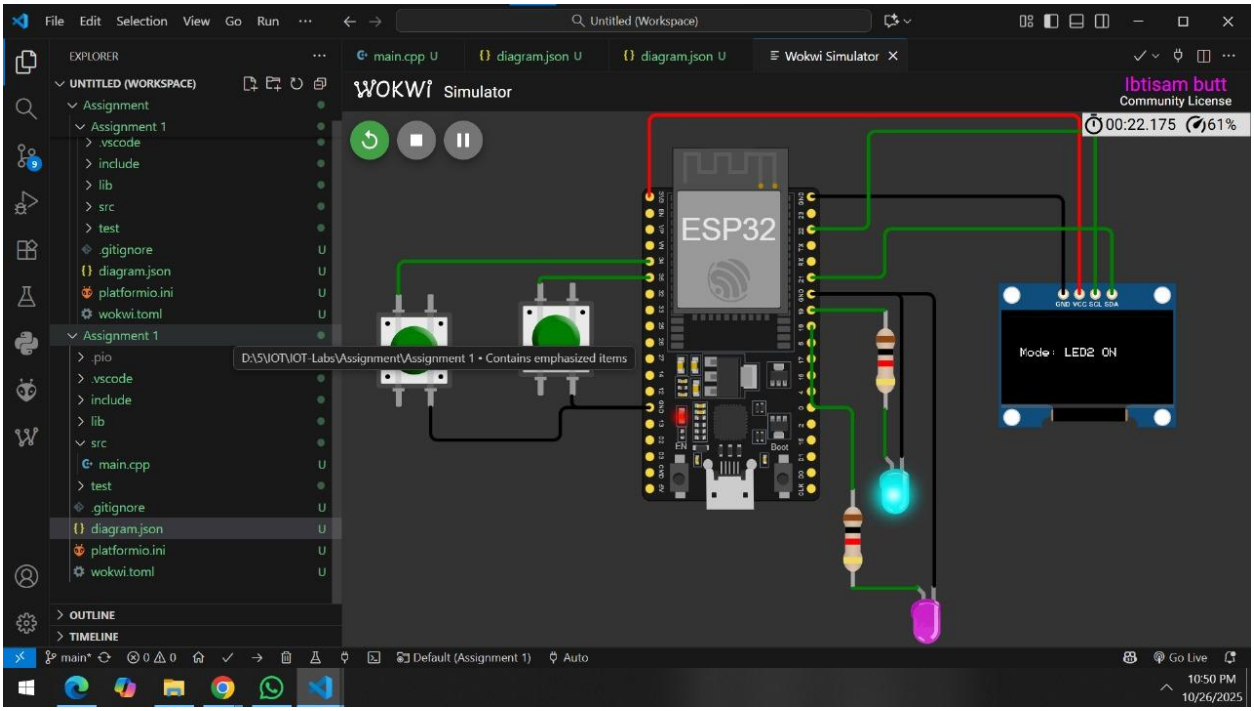


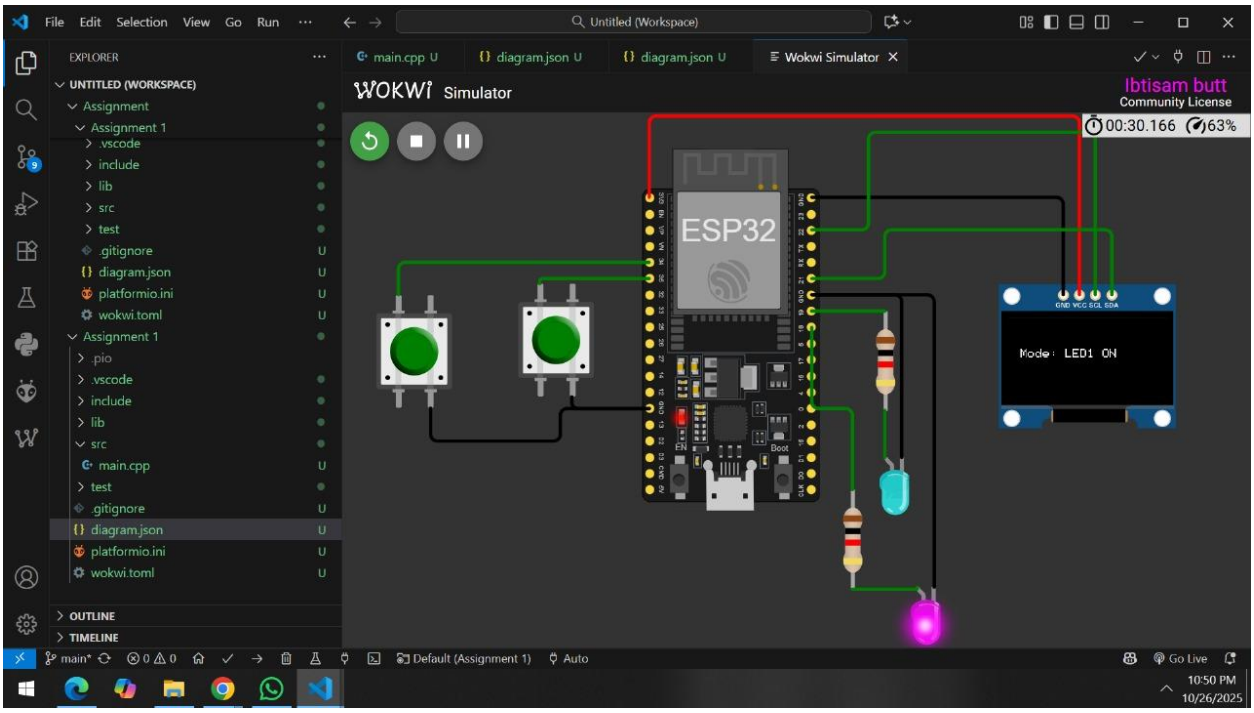
4. Pin Map:

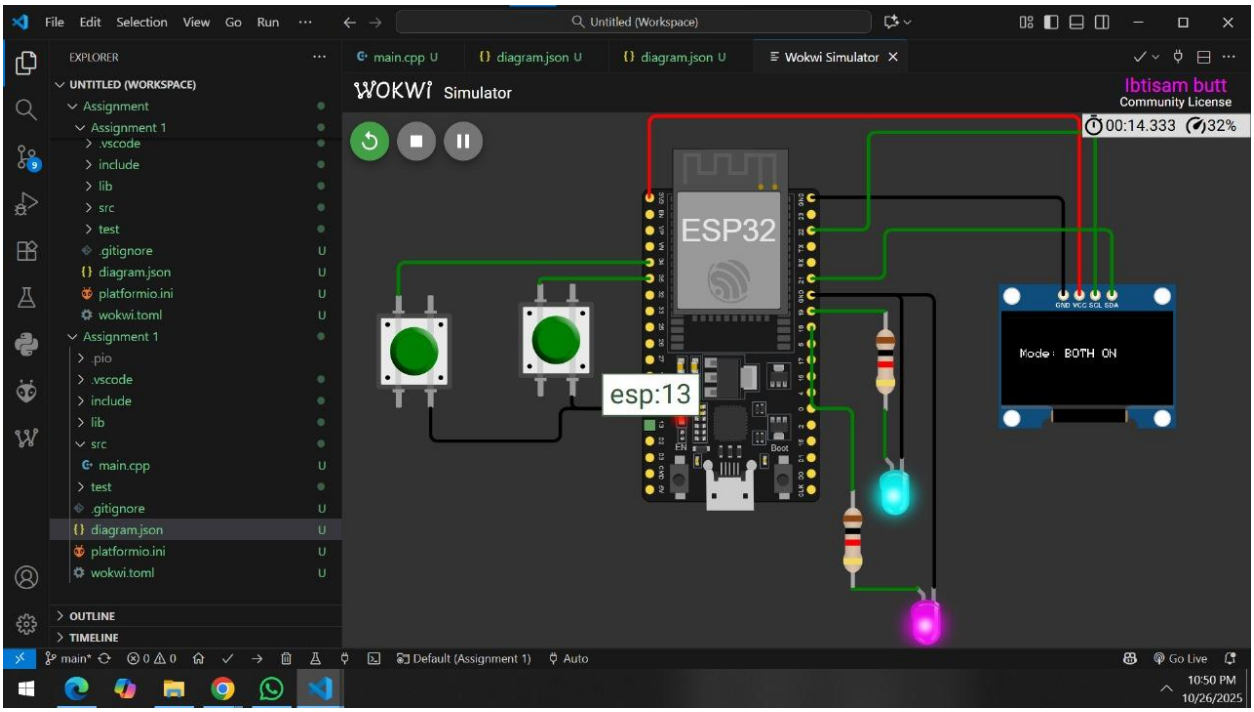
```
## Pin Map
- LED1 → GPIO 18
- LED2 → GPIO 19
- Button1 → GPIO 35
- Button2 → GPIO 34
- OLED → SDA 21, SCL 22
```

5. Screenshots:



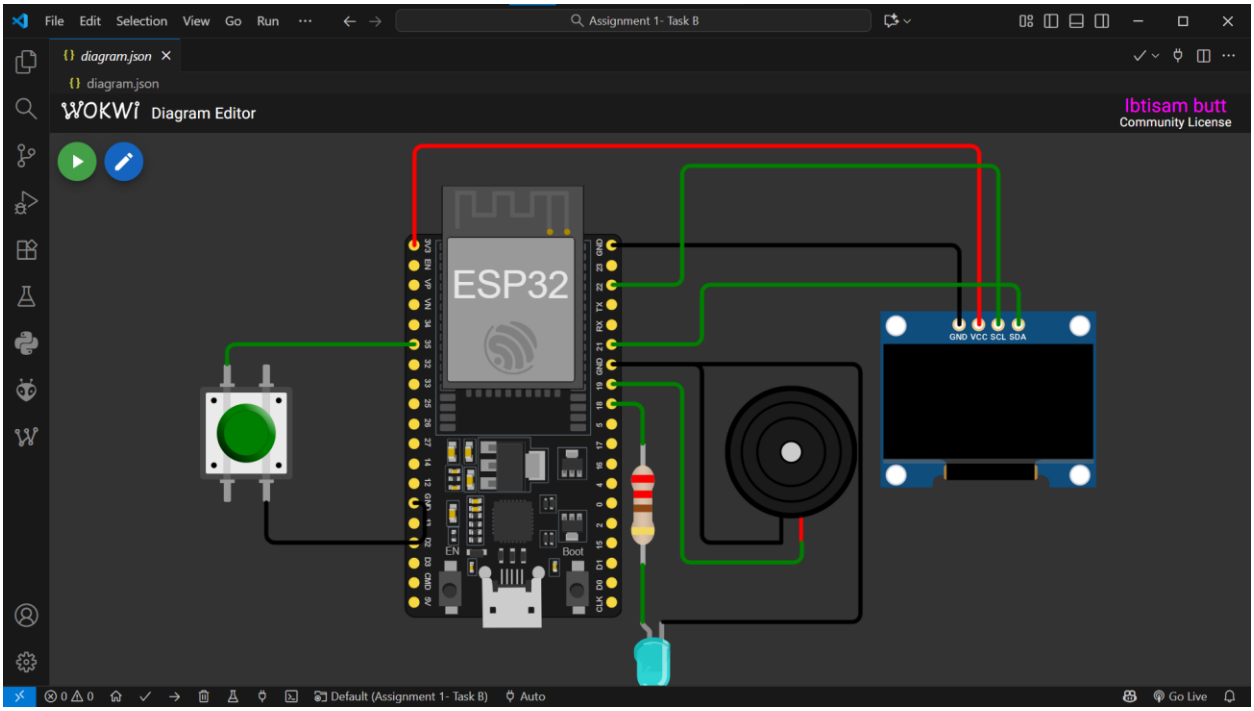



File Edit Selection View Go Run
Untitled (Workspace)
EXPLORER
UNTITLED (WORKSPACE)
Assignment
Assignment 1
.vscode
include
lib
src
test
.gitignore
diagram.json
platformio.ini
wokwi.toml
Assignment 1
.pio
.vscode
include
lib
src
main.cpp
test
.gitignore
diagram.json
platformio.ini
wokwi.toml
OUTLINE
TIMELINE
main.cpp U
diagram.json U
diagram.json U
Wokwi Simulator
WOKWi Simulator
Ibtisam butt
Community License
00:30.166
63%
ESP32
Mode: LED1 ON
Default (Assignment 1)
Auto
Go Live
10:50 PM
10/26/2025

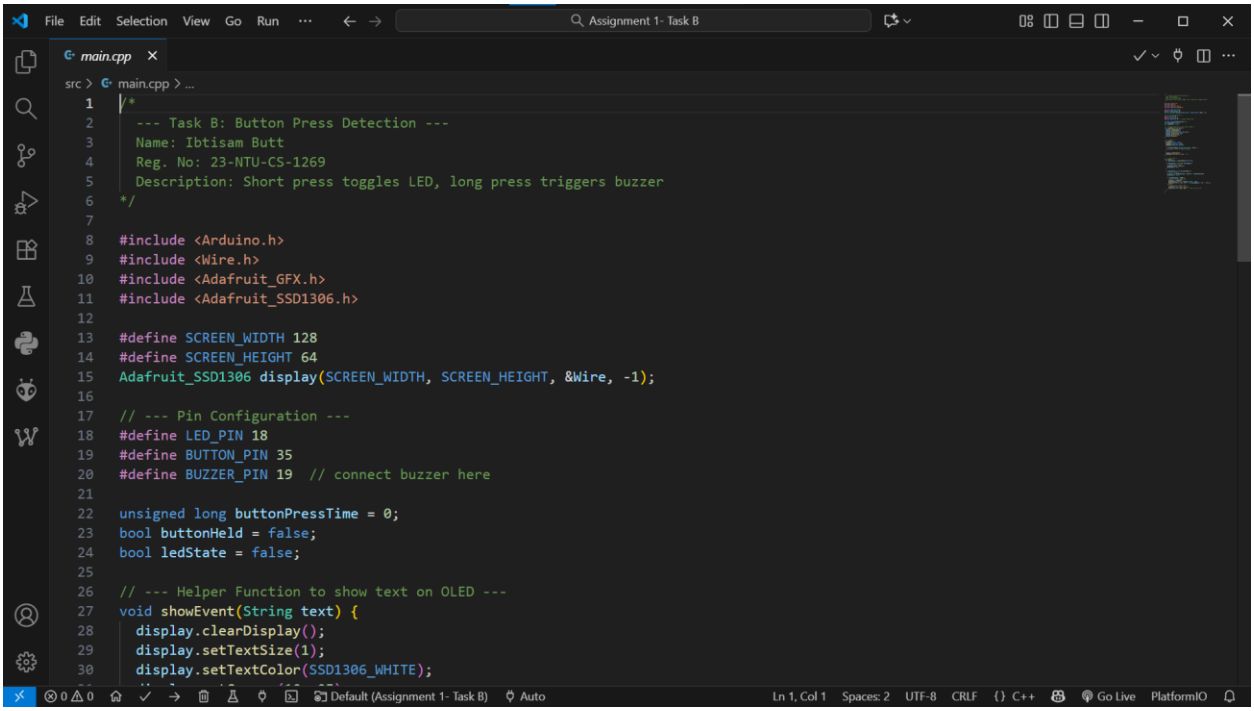

File Edit Selection View Go Run
Untitled (Workspace)
EXPLORER
UNTITLED (WORKSPACE)
Assignment
Assignment 1
.vscode
include
lib
src
test
.gitignore
diagram.json
platformio.ini
wokwi.toml
Assignment 1
.pio
.vscode
include
lib
src
main.cpp
test
.gitignore
diagram.json
platformio.ini
wokwi.toml
OUTLINE
TIMELINE
main.cpp U
diagram.json U
diagram.json U
Wokwi Simulator
WOKWi Simulator
Ibtisam butt
Community License
00:14.333
32%
ESP32
esp:13
Mode: BOTH ON
Default (Assignment 1)
Auto
Go Live
10:50 PM
10/26/2025

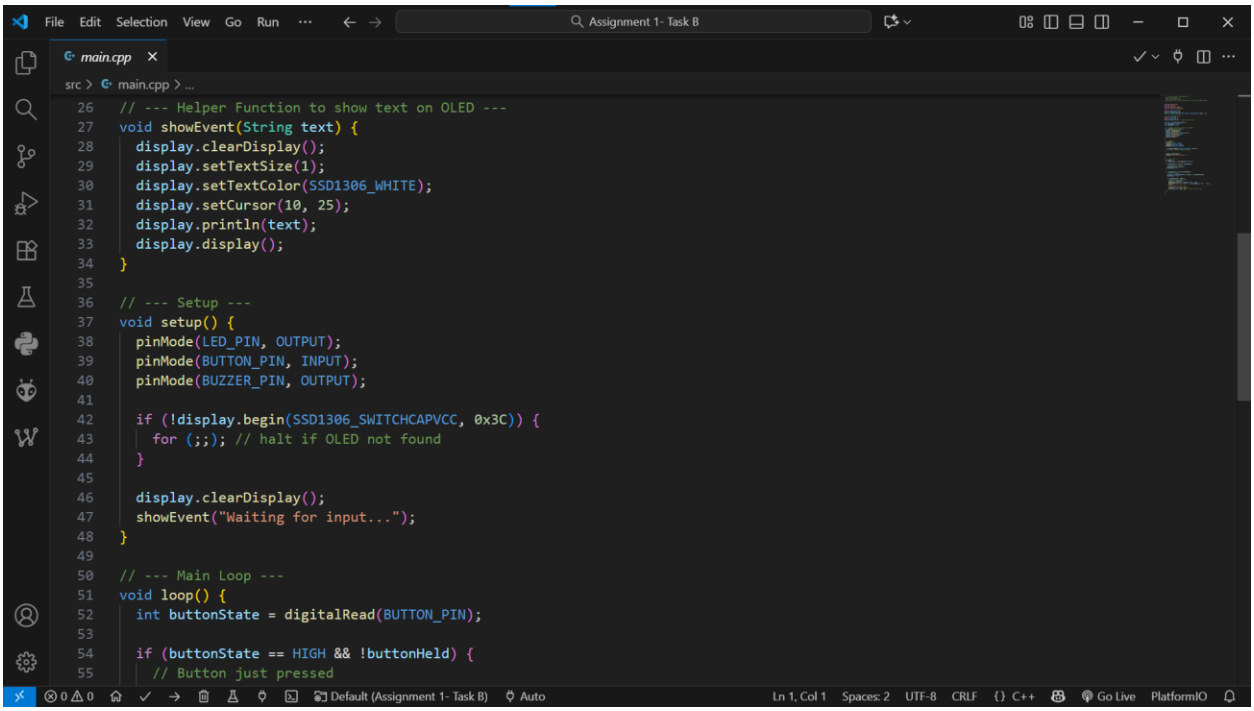
Task B:

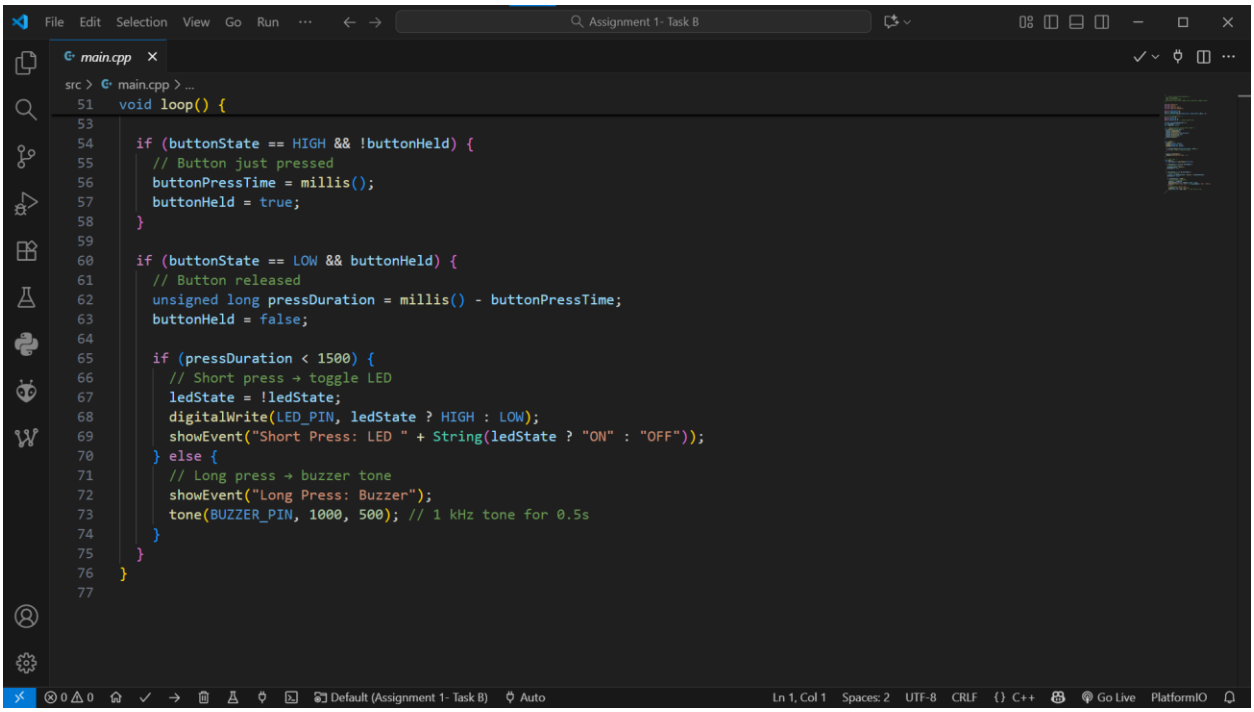
1. **Wokwi:** https://wokwi.com/projects/445898275769959425
2. **Circuit Diagrams:**



3. Code Snippets:







4. Pin Map: ## Pin Map

```
- LED1 → GPIO 18
- Button → GPIO 35
- Buzzer → GPIO 19
- OLED → SDA 21, SCL 22
```

5. Screenshots: