# ASSIGNMENT-4

## V.S.B.ENGINEERING COLLEGE

### NAME : PRIYANKA M

### REGISTER NUMBER : 922519106119
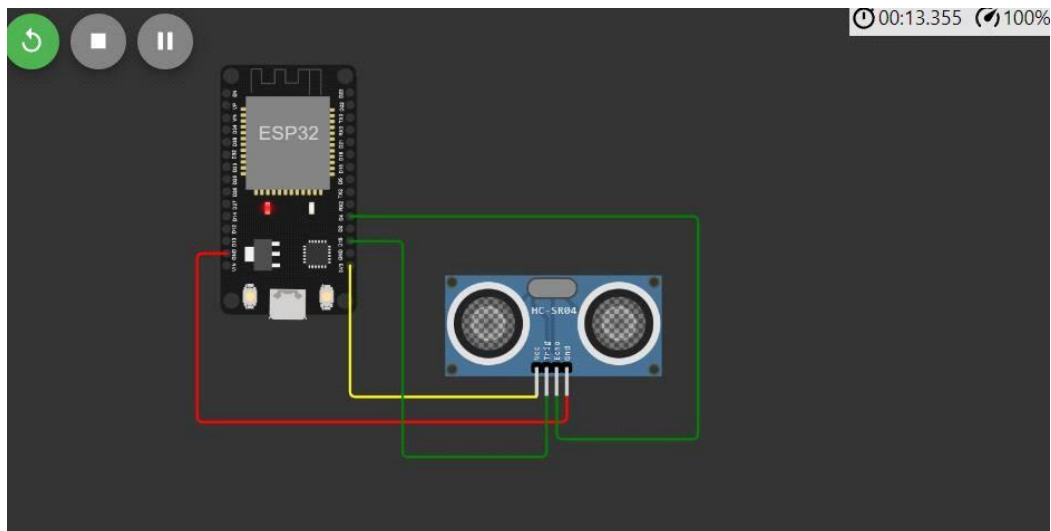
### PROJECT NAME    : PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT
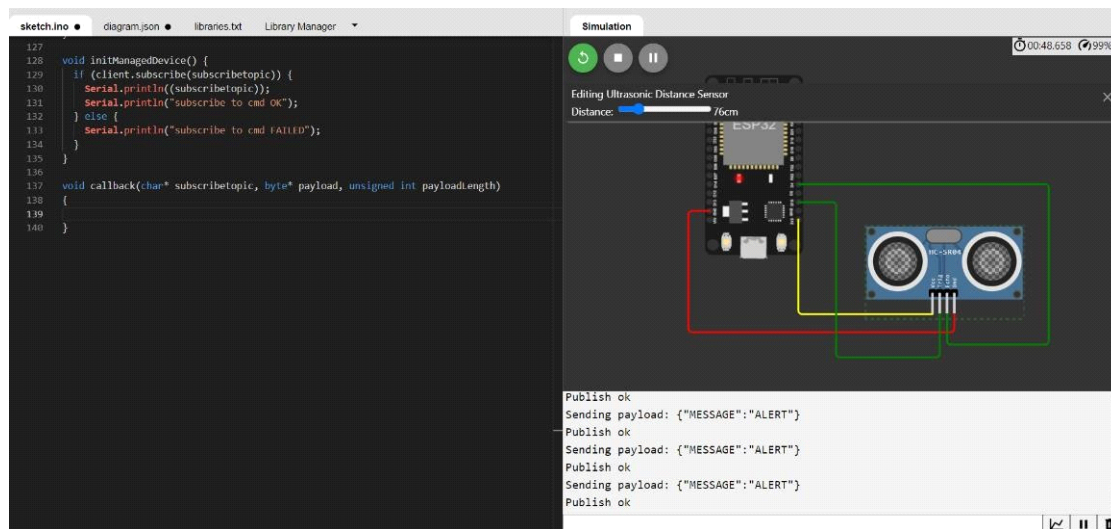
**Objective:**

       Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is lessthan 100 cms send an "alert" to the IBM cloud and display in the device recent events.

**Circuit Diagram:**

**Link:** https://wokwi.com/projects/305566932847821378

```
127
128    void initManagedDevice() {
129      if (client.subscribe(subscribetopic)) {
130        Serial.println((subscribetopic));
131        Serial.println("subscribe to cmd OK");
132      } else {
133        Serial.println("subscribe to cmd FAILED");
134      }
135    }
136
137    void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
138    {
139
140    }
```

**Simulation**

⏱ 00:48.658  ⏲ 99%

Editing Ultrasonic Distance Sensor                                            ✕
Distance: ▬▬▬▬ 76cm

```
Publish ok
Sending payload: {"MESSAGE":"ALERT"}
Publish ok
Sending payload: {"MESSAGE":"ALERT"}
Publish ok
Sending payload: {"MESSAGE":"ALERT"}
Publish ok
```

Browse    Action    Device Types    Interfaces                          **Add Device** ⊕

∨  ☐  12            ● Connected      abcd        Device      Oct 19, 2022 10:06 PM    →  •••

Identity    Device Information    **Recent Events**    State    Logs                    ✕

The recent events listed show the live stream of data that is coming and going from this device.

| Event | Value | Format | Last Received |
|-------|-------|--------|---------------|
| Data | {"MESSAGE":"ALERT"} | json | a few seconds ago |
| Data | {"MESSAGE":"ALERT"} | json | a few seconds ago |
| Data | {"MESSAGE":"ALERT"} | json | a few seconds ago |
| Data | {"MESSAGE":"ALERT"} | json | a few seconds ago |
| Data | {"MESSAGE":"ALERT"} | json | a few seconds ago |

>  ☐  12            ⚡ Disconnected   zxcv        Device      Oct 20, 2022 6:11 PM

# OUTPUT: