

ASSIGNMENT-4

TEAM ID: PNT2022TMID42891

IBM WATSON IOT PLATFORM

Device ID- 123

Device Type- PROJECT

Date Added – nov 15,2022 3:27pm

Added by - shashanksekar6@gmail.com

Connection status – Disconnected

Last connected :Nov 15,2022 3:31PM

Client address:185.178.200.130 Insecure

Duration: a minute

Data transferred:5.1KB

DEVICE EVENT INFORMATION

The screenshot displays the IBM Watson IoT Platform interface. The browser's address bar shows the URL `iahmpb.internetofthings.ibmcloud.com/dashboard/devices/browse`. The platform header includes the user's email `shashanksekar6@gmail.com` and ID `iahmpb`. The main navigation bar features tabs for `Browse`, `Action`, `Device Types`, and `Interfaces`, along with an `Add Device` button. A sidebar on the left contains icons for various IoT functions. The central panel is titled `Recent Events` and contains a table of device events. Below the table, a status box indicates `0 Simulations running`.

Event	Value	Format	Last Received
Data	<code>{"normal distance":126}</code>	json	a few seconds ago
Data	<code>{"normal distance":125.95}</code>	json	a few seconds ago
Data	<code>{"normal distance":125.95}</code>	json	a few seconds ago
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WOKWI PROJECT INFO

The screenshot displays the Wokwi web IDE interface. The left pane shows the 'sketch.ino' file with the following code:

```
1 #include <WiFi.h>
2 #include <PubSubClient.h>
3 WiFiClient wificlient;
4 String data3;
5 #define ORG "iahmpb"
6 #define DEVICE_TYPE "project"
7 #define DEVICE_ID "123"
8 #define TOKEN "Wb*k2HbuIwejIrd8z"
9 #define speed 0.034
10 #define led 12
11 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
12 char publishTopic[] = "iot-2/evt/Data/fmt/json";
13 char topic[] = "iot-2/cmd/home/fmt/String";
14 char authMethod[] = "use-token-auth";
15 char token[] = TOKEN;
16 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;
17 PubSubClient client(server, 1883, wificlient);
18 void publishData();
19
20
21 const int trigpin=4;
22 const int echopin=2;
23 String command;
24 String data="";
25
26 long duration;
27 float dist;
```

The right pane shows a simulation of the hardware. It includes an ESP32 microcontroller, a red LED connected to pin 12, and an HC-SR04 ultrasonic sensor connected to pins 4 and 2. The simulation status bar at the top right indicates a runtime of 00:22.832 and 94% completion. The console output shows the following messages:

```
Warning crosses 110cm -- it automaticaly of the loop
Sending payload: {"normal distance":125.95}
Warning crosses 110cm -- it automaticaly of the loop
Sending payload: {"normal distance":125.95}
Warning crosses 110cm -- it automaticaly of the loop
```

The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 3:23 PM on 11/15/2022.

NODE RED CONNECTION INFO

