```
//https://wokwi.com/projects/346493274587923028

#include <WiFi.h>
#include <WiFiClient.h>
#include <PubSubClient.h>
#define TRIG 12    // what pin we're connected to
#define ECHO 14

#define ORG "vasy65"
#define DEVICE_TYPE "finaljp"
#define DEVICE_ID "jaya"
#define TOKEN "preethi2001"


float distance;
long duration;

char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
char publishTopic[] = "iot-2/evt/Distance/fmt/json";
char authMethod[] = "use-token-auth";
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;


WiFiClient wifiClient;
PubSubClient client(server, 1883, NULL ,wifiClient);

void PublishData(float distance) {
  mqttconnect();
  String payload;
  if(distance < 100.00)
  {
    payload = "{\"Distance\":";
    payload += distance; payload += ",\"Alert\":\"Alert Distance Less than 100
cm\"";
    payload += "}";
  }
  else
  {
    payload = "{\"Distance\":";
    payload += distance;
    payload += "}";

  }


  Serial.print("Sending payload: ");
  Serial.println(payload);
```

```cpp
if (client.publish(publishTopic, (char*) payload.c_str())) {
  Serial.println("Publish ok");
} else {
  Serial.println("Publish failed");
}
```