```
#include <ESP8266WiFi.h>
#include <WiFiClient.h>
#include < PubSubClient.h >
#include "DHT.h"
const char* ssid = "project1";
const char* password = "22222222";
#define DHTPIN 12
#define DHTTYPE DHT22
DHT dht(DHTPIN, DHTTYPE);
#define ID "jpg7s5"
#define DEVICE_TYPE "ESP8266"
#define DEVICE_ID "PRO"
#define TOKEN "JEEVITHAECE"
char server[] = ID ".messaging.internetofthings.ibmcloud.com";
char publish_Topic1[] = "iot-2/evt/Data1/fmt/json";
char publish_Topic2[] = "iot-2/evt/Data2/fmt/json";
char publish_Topic3[] = "iot-2/evt/Data3/fmt/json";
char authMethod[] = "use-token-auth";
char token[] = TOKEN;
char clientId[] = "d:" ID ":" DEVICE_TYPE ":" DEVICE_ID;/////a-6758fk-
gbpgmf1xf8///SyKj8fKYlys)9wQ9at
WiFiClient wifiClient;
PubSubClient client(server, 1883, NULL, wifiClient);
void setup() {
  Serial.begin(115200);
```

```
dht.begin();
  Serial.println();
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
   delay(500);
   Serial.print(".");
  }
  Serial.println("");
  Serial.println(WiFi.localIP());
  if (!client.connected()) {
    Serial.print("Reconnecting client to ");
    Serial.println(server);
    while (!client.connect(clientId, authMethod, token)) {
      Serial.print(".");
      delay(500);
    }
    Serial.println("Connected TO IBM IoT cloud!");
  }
}
long previous_message = 0;
void loop() {
  client.loop();
  long current = millis();
  if (current - previous_message > 3000) {
    previous_message = current;
     float hum = 34;
     float temp = 35;
     float level = 1;
     if (isnan(hum) || isnan(temp) ){
```

```
Serial.println(F("Failed to read from DHT sensor!"));
 return;
}
Serial.print("Temperature: ");
Serial.print(temp);
Serial.print("°C");
Serial.print(" Humidity: ");
Serial.print(hum);
Serial.print("%");
   String payload = "{\"d\":{\"Name\":\"" DEVICE_ID "\"";
       payload += ",\"Temperature\":";
       payload += temp;
       payload += "}}";
   Serial.print("Sending payload: ");
   Serial.println(payload);
   if (client.publish(publish_Topic1, (char*) payload.c_str())) {
     Serial.println("Published successfully");
   } else {
     Serial.println("Failed");
   }
   String payload1 = "{\"d\":{\"Name\":\"" DEVICE_ID "\"";
       payload1 += ",\"Humidity\":";
       payload1 += hum;
       payload1 += "}}";
       Serial.print("Sending payload: ");
       Serial.println(payload1);
       Serial.println('\n');
```

```
if (client.publish(publish_Topic2, (char*) payload1.c_str())) {
       Serial.println("Published successfully");
    } else {
       Serial.println("Failed");
    }
String\ payload2 = "{\"d\":{\"Name\":\""}\ DEVICE\_ID\ "\"";}
        payload2 += ",\"Level\":";
        payload2 += level;
        payload2 += "}}";
        Serial.print("Sending payload: ");
        Serial.println(payload2);
        Serial.println('\n');
     if (client.publish(publish_Topic3, (char*) payload2.c_str())) {
       Serial.println("Published successfully");
    } else {
       Serial.println("Failed");
    }
  }
}
```