FINAL CODE

Date	19 November 2022
Team ID	PNT2022TMID18070
Project Name	Personal assistant for senior people who are self Reliant
Maximum Marks	-

ARDUINO CODE:

```
#include <WiFi.h>
#include <PubSubClient.h>
#include <Ticker.h>
#include <HTTPClient.h>
#include <SPI.h>

#define WIFI_SSID "Wokwi-GUEST";
#define WIFI_PASSWORD "";

const char* ssid = WIFI_SSID;
const char* password =  WIFI_PASSWORD;

//-------- Customise these values -----------

#define ORG "94vqkw"
#define DEVICE_TYPE "NodeMCU"
#define DEVICE_ID "123"
#define TOKEN "FilledStack123"

//-------- Customise the above values --------

#define DEVICE_BUTTON 0
#define DEVICE_RELAY 19
#define DEVICE_GREEN_LED 18
#define DEVICE_RED_LED 4

Ticker ledBlinker;
WiFiClient wifiClient;
// PubSubClient client(server, 1883, NULL, wifiClient);

char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
```

```
char authMethod[] = "use-token-auth";
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;

#define CMD_STATE "/gpio/"

// use the '+' wildcard so it subscribes to any command with any message format
const char commandTopic[] = "iot-2/evt/status1/fmt/json";

void gotMsg(char* topic, byte* payload, unsigned int payloadLength);

// WiFiClient wifiClient;
PubSubClient client(server, 1883, gotMsg, wifiClient);

int buttonPressDuration;

void setup() {
 Serial.begin(115200); Serial.println();

 pinMode(DEVICE_RELAY, OUTPUT);
 pinMode(DEVICE_GREEN_LED, OUTPUT);
 pinMode(DEVICE_RED_LED, OUTPUT);

 ledBlinker.attach(0.1, ledBlink); // fast blink indicates Wifi connecting
 wifiConnect();
 ledBlinker.attach(0.4, ledBlink); // slower blink indicates MQTT connecting
 mqttConnect();
 ledBlinker.detach();
 digitalWrite(DEVICE_GREEN_LED, LOW); // low is led on to show connected

 pinMode(DEVICE_BUTTON, INPUT);
 attachInterrupt(DEVICE_BUTTON, buttonPress, CHANGE);
}

int lastHeartBeat;
long lastMsg = 0;
void loop() {
  client.loop();


 if (buttonPressDuration > 0) {
  doCommand(digitalRead(DEVICE_RELAY) ? "off" : "on");
  buttonPressDuration = 0;
 }

 if (!client.loop()) {
  mqttConnect();
 }
```

```arduino
  if (millis()-lastHeartBeat > 10000) {
    Serial.print("loop: gpio "); Serial.print(DEVICE_RELAY); Serial.print(" current state ");
    Serial.println(digitalRead(DEVICE_RELAY) ? "On" : "Off");
    digitalWrite(DEVICE_GREEN_LED, HIGH); // flicker LED to show its active
    delay(200);
    digitalWrite(DEVICE_GREEN_LED, LOW);
    lastHeartBeat = millis();
  }
}

void gotMsg(char* topic, byte* payload, unsigned int payloadLength) {
  Serial.print("gotMsg: invoked for topic: "); Serial.println(topic);

  if (String(topic).indexOf(CMD_STATE) > 0) {
    String cmd = "";
    for (int i=0; i<payloadLength; i++) {
      cmd += (char)payload[i];
    }
    doCommand(cmd);
  } else {
    Serial.print("gotMsg: unexpected topic: "); Serial.println(topic);
  }
}

void doCommand(String cmd) {
  int currentState = digitalRead(DEVICE_RELAY);
  int newState = (cmd == "on");
  digitalWrite(DEVICE_RELAY, newState);
  Serial.print("Relay switched from ");
  Serial.print(currentState ? "On" : "Off");Serial.print(" to "); Serial.println(newState ? "On" :
"Off");
}

unsigned long startPress = 0;

void buttonPress() {
  int currentState = digitalRead(DEVICE_BUTTON);
  if (currentState == 0) { // 0 is pressed, 1 is released
    startPress = millis();
  } else {
    int diff = millis() - startPress;
    if (diff > 100) { // debounce
      buttonPressDuration = diff;
    }
  }
  Serial.print("Button "); Serial.print(currentState ? "released" : "pressed");
  Serial.print(" duration="); Serial.println(buttonPressDuration);
```

```
}

void ledBlink() {
  digitalWrite(DEVICE_GREEN_LED, ! digitalRead(DEVICE_GREEN_LED));
}

void wifiConnect() {
 Serial.print("Connecting to "); Serial.print(ssid);
 WiFi.begin(ssid, password);
 while (WiFi.status() != WL_CONNECTED) {
   delay(500);
   Serial.print(".");
 }
 Serial.print("\nWiFi connected, IP address: "); Serial.println(WiFi.localIP());
}

void mqttConnect() {
 if (!!!client.connected()) {
   Serial.print("Reconnecting MQTT client to "); Serial.println(server);
   while (!!!client.connect(clientId, authMethod, token)) {
     Serial.print(".");
     delay(500);
   }
   Serial.println();
 }

 subscribeTo(commandTopic);
}

void subscribeTo(const char* topic) {
 Serial.print("subscribe to "); Serial.print(topic);
 if (client.subscribe(topic)) {
   Serial.println(" OK");
 } else {
   Serial.println(" FAILED");
 }
}
```

NODE RED CONFIGURATION FILES :

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IBM WATSON DETAILS:

ORGANISATION ID: "94vqkw"
DEVICE_TYPE: "NodeMCU"
DEVICE_ID: "123"
TOKEN: "FilledStack123"
API KEY : a-94vqkw-thiaobpmf7
AUTHENTICATION TOKEN : LH9sMR6kVtJyY)fGrK