Wokwi Code

Date	19 November 2022
Team ID	PNT2022TMID06107
Project Name	Personal Assistance For Seniors Who Are Self-
	Reliant

SOURCE CODE:

```
#include <WiFi.h>
#include < PubSubClient.h >
#include <LiquidCrystal_I2C.h>
void callback(char* subscribetopic, byte* payload, unsigned int
        payloadLength);
#define ORG "vf1g00"
#define DEVICE_TYPE "DeviceType"
#define DEVICE ID "54321"
#define TOKEN "Du@CS0CS9phctYRacI"
String data3;
LiquidCrystal_I2C lcd(0x27,16,2);
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
char publishTopic[] = "iot-2/evt/Data/fmt/json";
char subscribetopic[] = "iot-2/cmd/test/fmt/String";
char authMethod[] = "use-token-auth";
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;
WiFiClient wifiClient;
PubSubClient client(server, 1883, callback, wifiClient);
void setup() {
 lcd.init();
 lcd.backlight();
 Serial.begin(115200);
 Wire.begin(4,2);
 lcd.setCursor(1,0);
 lcd.print("Hi");
 wificonnect();
 mqttconnect();
void loop()
```

```
{
 Serial.println("Take this medicine-Digene");
 delay(1000);
}
void mqttconnect() {
 if (!client.connected()) {
  Serial.print("Reconnecting client to ");
  Serial.println(server);
  while (!!!client.connect(clientId, authMethod, token)) {
   Serial.print(".");
   delay(500);
  initManagedDevice();
  Serial.println();
 }
void wificonnect()
 Serial.println();
 Serial.print("Connecting to ");
 WiFi.begin("Wokwi-GUEST", "", 6);
 while (WiFi.status() != WL_CONNECTED) {
  delay(500);
  Serial.print(".");
 Serial.println("");
 Serial.println("WiFi connected");
 Serial.println("IP address: ");
 Serial.println(WiFi.localIP());
void initManagedDevice() {
 if (client.subscribe(subscribetopic)) {
  Serial.println((subscribetopic));
  Serial.println("subscribe to cmd OK");
  Serial.println("subscribe to cmd FAILED");
 }
void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
```

```
Serial.print("callback invoked for topic: ");
Serial.println(subscribetopic);
for (int i = 0; i < payloadLength; i++) {
    //Serial.print((char)payload[i]);
    data3 += (char)payload[i];
}
Serial.println("data: " + data3);
data3 = "";</pre>
```

OUTPUT:

