

SMART DOOR BELL

CODE:

```
#include <ESP8266WiFi.h>

#include <Firebase_ESP_Client.h>

#include "addons/TokenHelper.h"

#include "addons/RTDBHelper.h"


#define WIFI_SSID "123456789"

#define WIFI_PASSWORD "123456789"

#define API_KEY "AlzaSyCJqfTstb2SEIYQKJZaBzmPVIqRTDLH-7g"

#define DATABASE_URL "https://testcloud-edc85-default-rtdb.firebaseio.com/"


FirebaseData fbdo;

FirebaseAuth auth;

FirebaseConfig config;

unsigned long sendDataPrevMillis = 0;

bool signupOK = false;

int lpin = D1;

int bpin = D2;

String intValue;


void setup(){

    pinMode(lpin, OUTPUT);

    pinMode(bpin, OUTPUT);

    Serial.begin(115200);

    Serial.println();

    String thisBoard= ARDUINO_BOARD;

    Serial.println(thisBoard);

    WiFi.begin(WIFI_SSID, WIFI_PASSWORD);
```

```

Serial.print("Connecting to Wi-Fi");
while (WiFi.status() != WL_CONNECTED){
    Serial.print(".");
    delay(300);
}
Serial.println();
Serial.print("Connected with IP: ");
Serial.println(WiFi.localIP());
Serial.println();
config.api_key = API_KEY;
config.database_url = DATABASE_URL;
if (Firebase.signUp(&config, &auth, "", "")){
    Serial.println("Firebase Auth successful");
    signupOK = true;
}
else{
    Serial.printf("Firebase Auth failed: %s\n", config.signer.signupError.message.c_str());
}
config.token_status_callback = tokenStatusCallback; // see addons/TokenHelper.h
Firebase.begin(&config, &auth);
Firebase.reconnectWiFi(true);
}

void loop(){

    if (Firebase.ready() && signupOK)
    {
        if (Firebase.RTDB.getString(&fbdo, "/mainbucket/bulb"))
        {

```

```
intValue = fbdo.stringData();
String mySubString = intValue.substring(2, 3);
Serial.println(intValue);
Serial.println(mySubString);
if (mySubString == "0")
{
    digitalWrite(lpin, LOW);
    Serial.println("LED OFF");
    delay(100);
}
else if (mySubString == "1")
{
    digitalWrite(lpin, HIGH);
    Serial.println("LED ON");
    digitalWrite(bpin, HIGH);
    delay(1000);
    digitalWrite(bpin, LOW);
    delay(1000);
    digitalWrite(bpin, HIGH);
    delay(1000);
    digitalWrite(bpin, LOW);
    delay(100);
}
delay(100);
}
else {
    Serial.println("Firebase error: " + fbdo.errorReason());
}
delay(100);
```

}

}