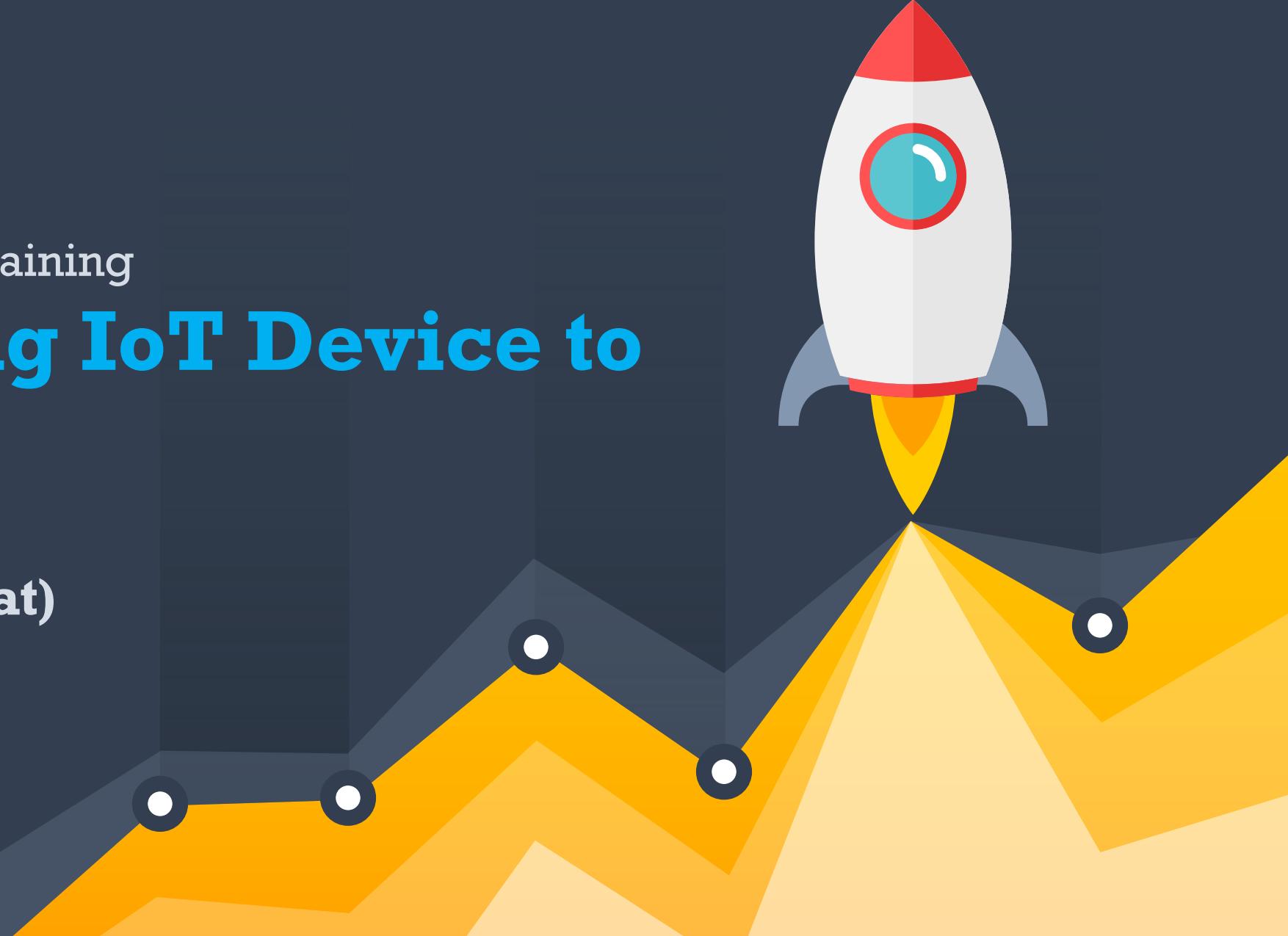


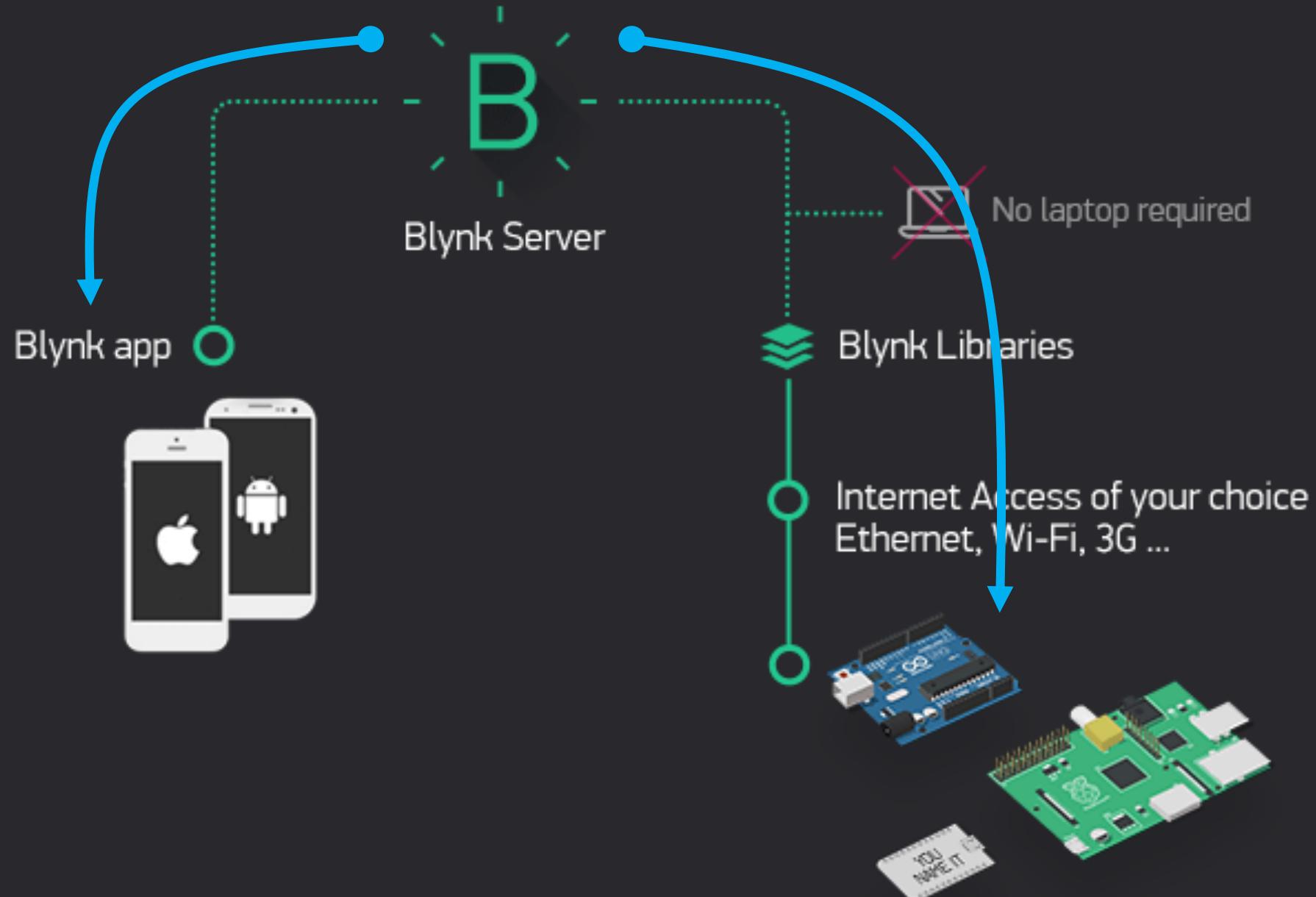


Webinar / Online Training

Connecting IoT Device to Blynk

5 Jun 2020 (Jumaat)
10.00 Pagi







SMOKE
SENSOR



LIGHT
SENSOR



TEMPERATURE
SENSOR



STEPPER
MOTOR



WIZ750SR



ETHERNET



BLYNK SERVER



SERIAL

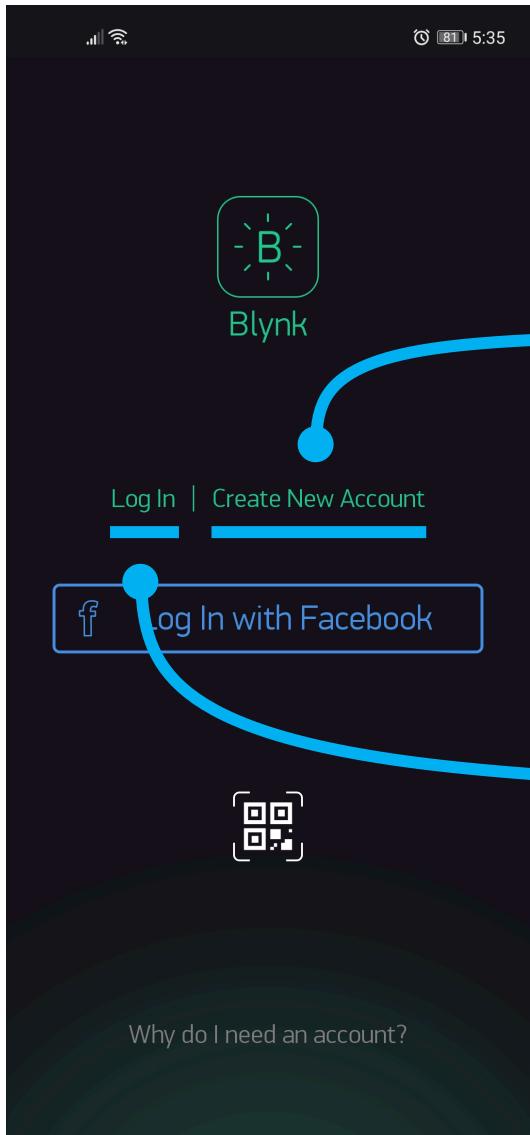
ARDUINO 101



SMARTPHONE







Register New Account

Create New Account

Email

Password

Sign Up

Log In

This screen is titled 'Create New Account'. It contains two input fields: 'Email' and 'Password'. The 'Email' field has a placeholder 'Email' and a small eye icon to its right. The 'Password' field has a placeholder 'Password' and a small eye icon to its right. At the bottom is a large green 'Sign Up' button. A blue arrow points from the 'Create New Account' link on the previous screen to this screen.

Log In

Log In

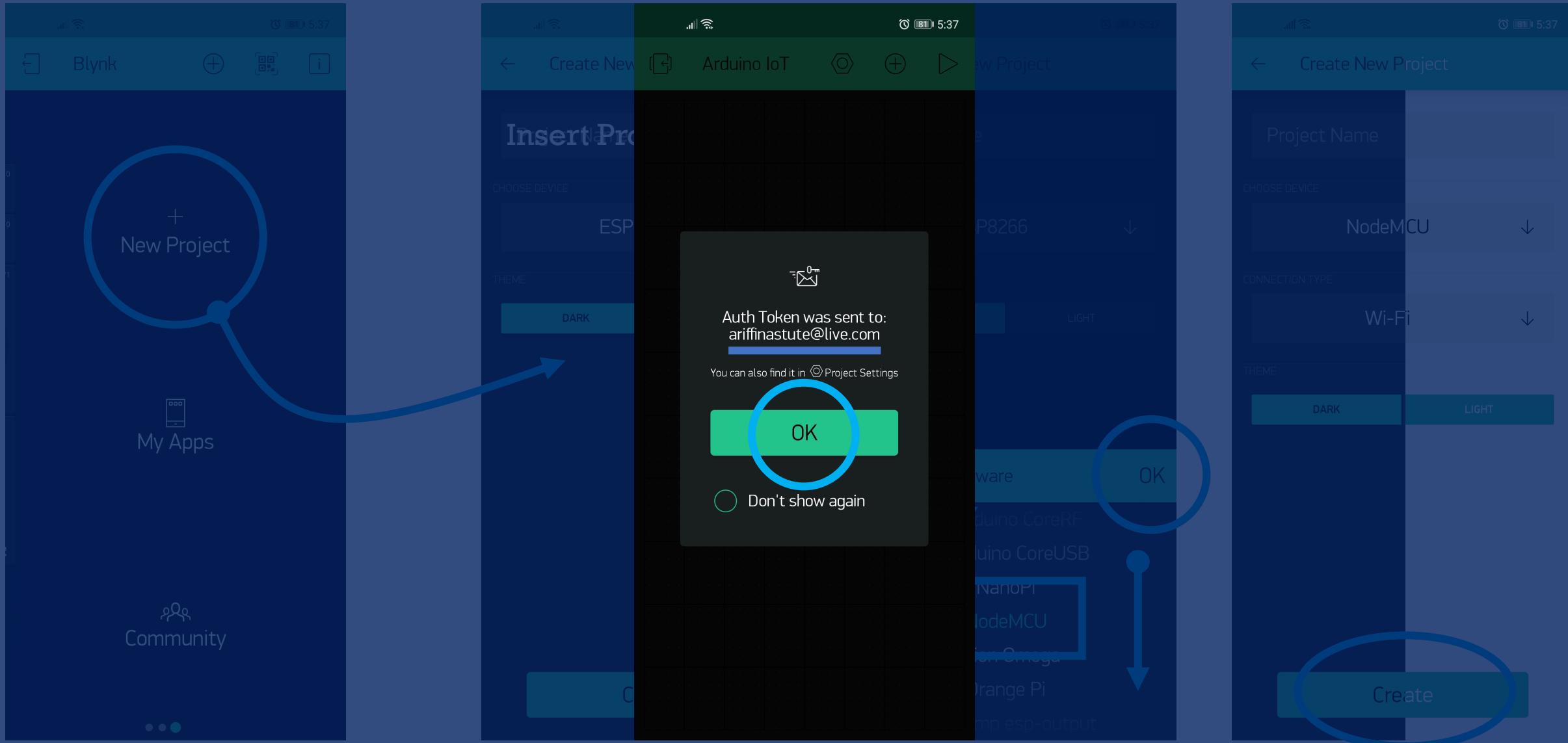
ariffinastute@live.com

Forgot password?

Log In

This screen is titled 'Log In'. It displays the email 'ariffinastute@live.com' in a text input field. Below it is a password input field showing a series of dots. To the right of the password field is a small eye icon. At the bottom is a green 'Log In' button. A blue arrow points from the 'Log In' link on the previous screen to this screen.

Blynk – Create New Project



Mail - Mohamad Ariffin Zulkifli - Outlook - Google Chrome

outlook.live.com/mail/0/deeplink?version=2020060101.06&popoutv2=1

Reply | Delete Junk Block ...

Auth Token for Arduino IoT project and device Arduino IoT

B Blynk <dispatcher@blynk.io>
Thu 06/04/2020 5:37 PM
To: You

Auth Token **nTSn1Eux76US7Jpd4fYgXuzc1-epQQy6**

Happy Blynking!

-
Getting Started Guide -> <https://www.blynk.cc/getting-started>
Documentation -> <http://docs.blynk.cc/>
Sketch generator -> <https://examples.blynk.cc/>

Latest Blynk library -> https://github.com/blynkkk/blynk-library/releases/download/v0.6.1/BlynkLibrary_v0.6.1.zip
Latest Blynk server -> https://github.com/blynkkk/blynk-server/releases/download/v0.41.12/server_v0.41.12.zip

-
<https://www.blynk.cc>
twitter.com/blynk_app
www.facebook.com/blynkapp

NodeMCU | Arduino 1.8.12

File Edit Sketch Tools Help

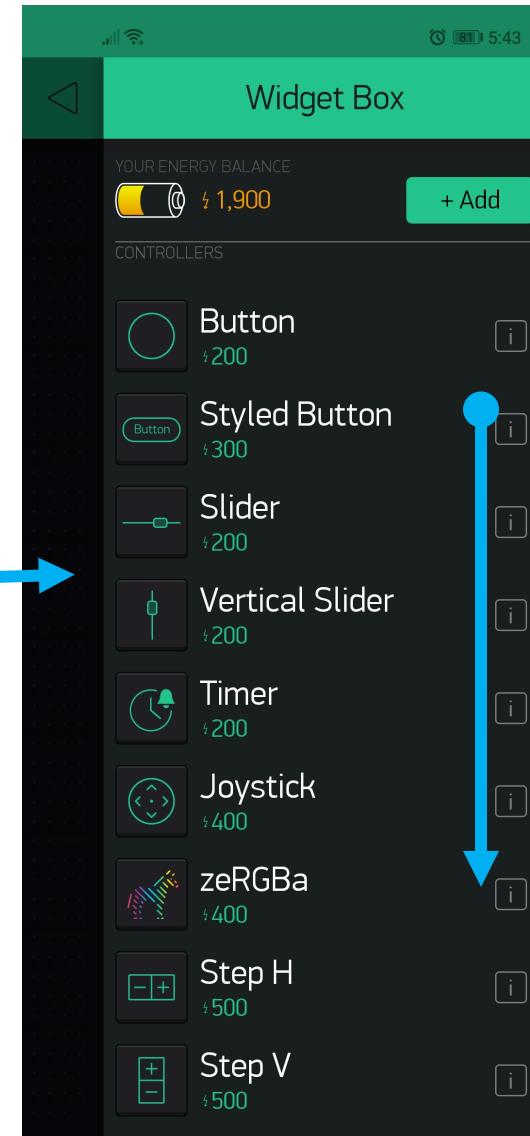
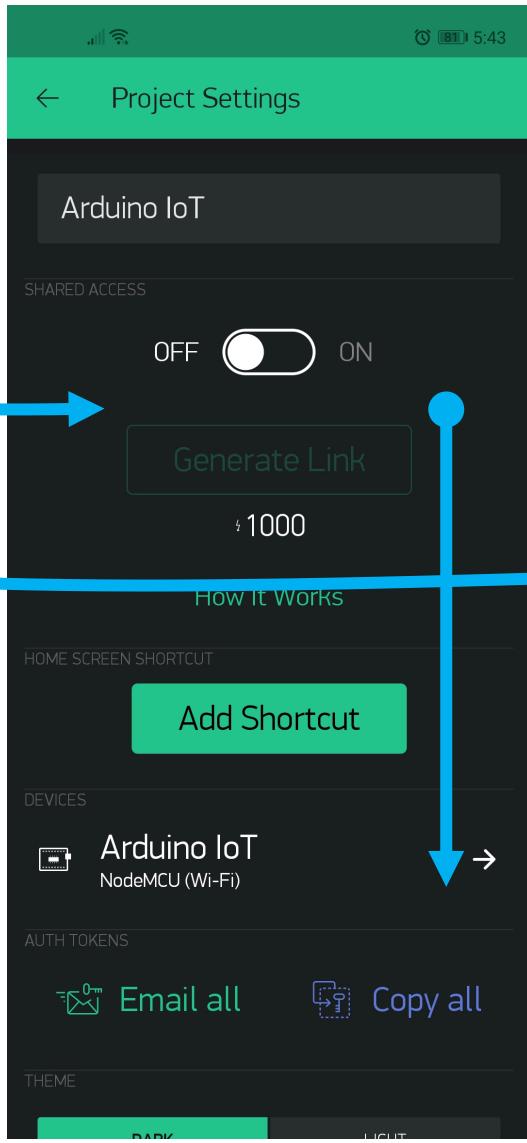
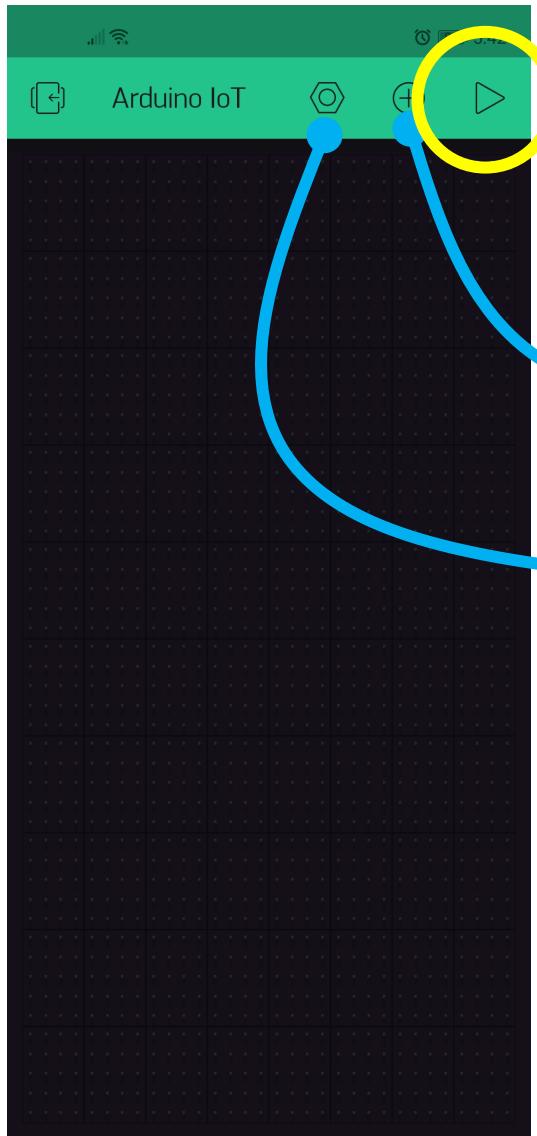
NodeMCU §

```
38 #define BLYNK_PRINT Serial
39
40
41 #include <ESP8266WiFi.h>
42 #include <BlynkSimpleEsp8266.h>
43
44 // You should get Auth Token in the Blynk App.
45 // Go to the Project Settings (nut icon).
46 char auth[] = "nTSn1Eux76US7Jpd4fYgXuzc1-epQQy6";
47
48 // Your WiFi credentials.
49 // Set password to "" for open networks.
50 char ssid[] = "YourNetworkName";
51 char pass[] = "YourPassword";
52
53 void setup()
54 {
55     // Debug console
```

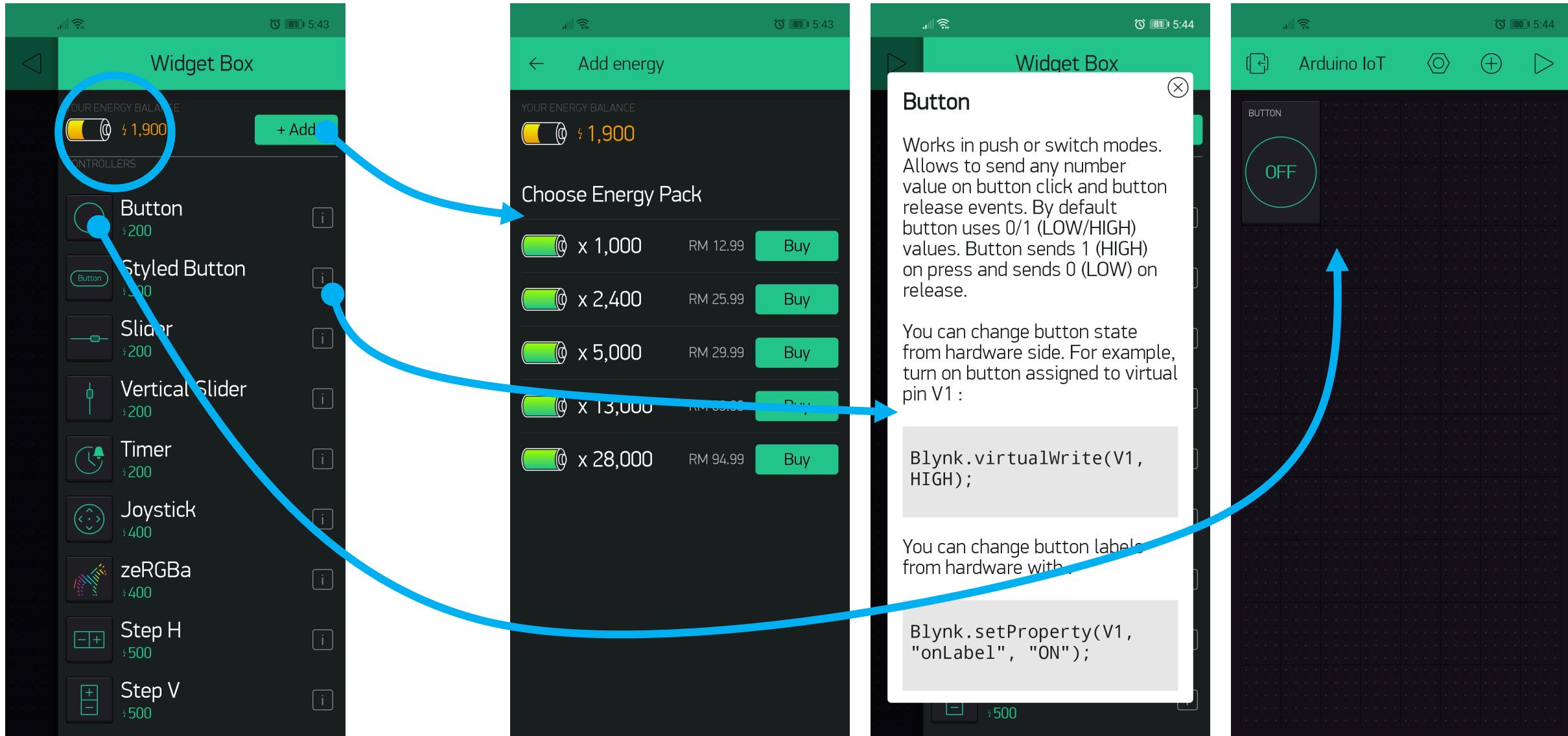
Code formatted for HTML has been copied to the clipboard.

63 NodeMCU 1.0 (ESP-12E Module), 80 MHz, Flash, Legacy (new can return null)

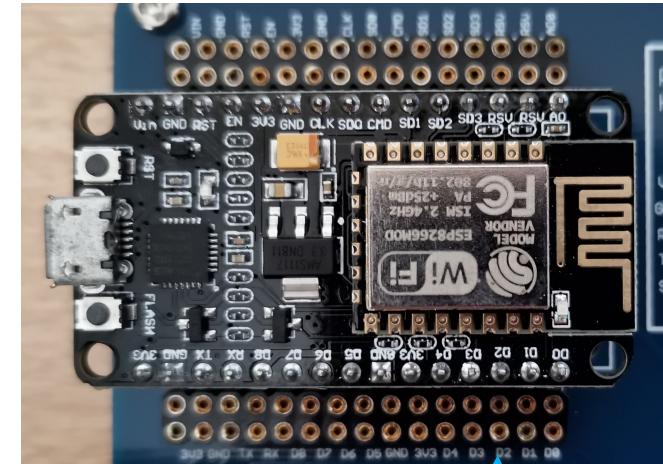
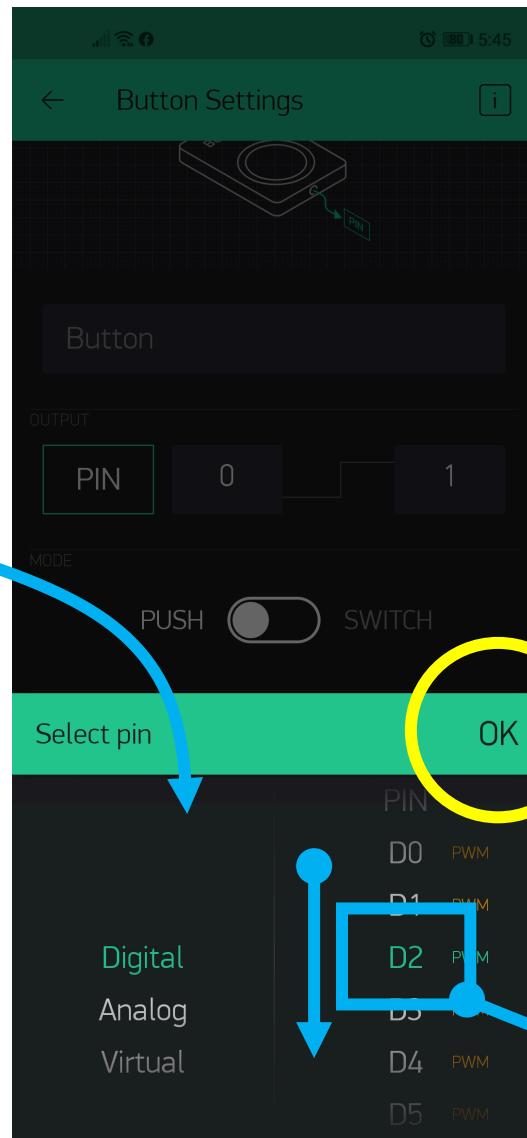
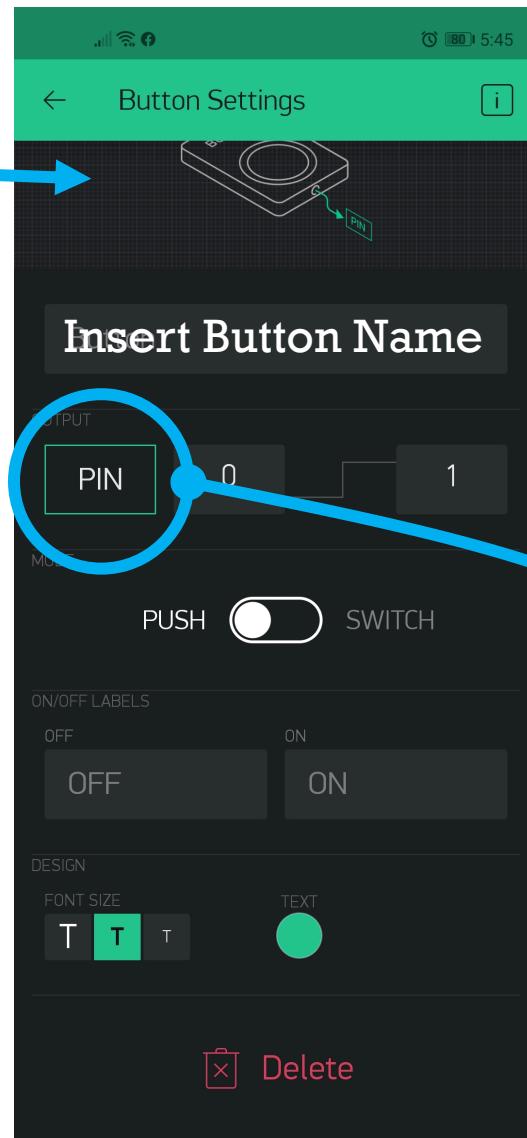
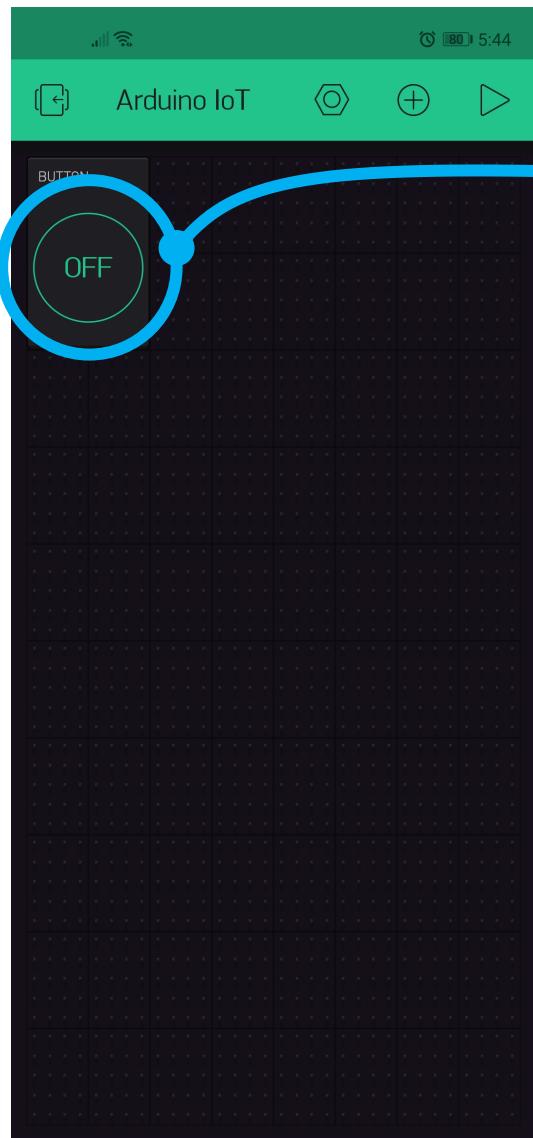
Blynk – Project Canvas



Blynk – Widget Box

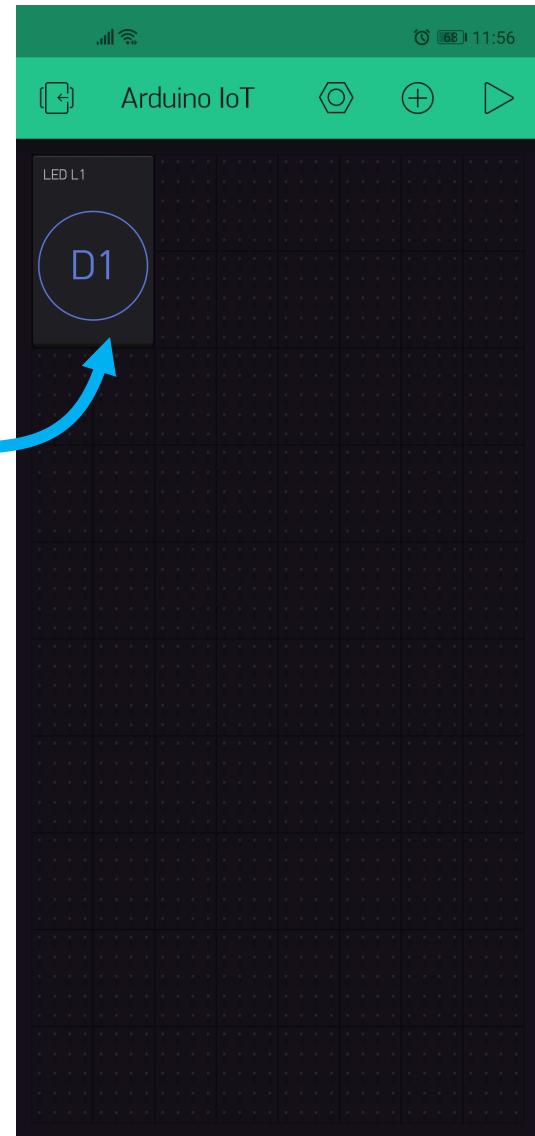
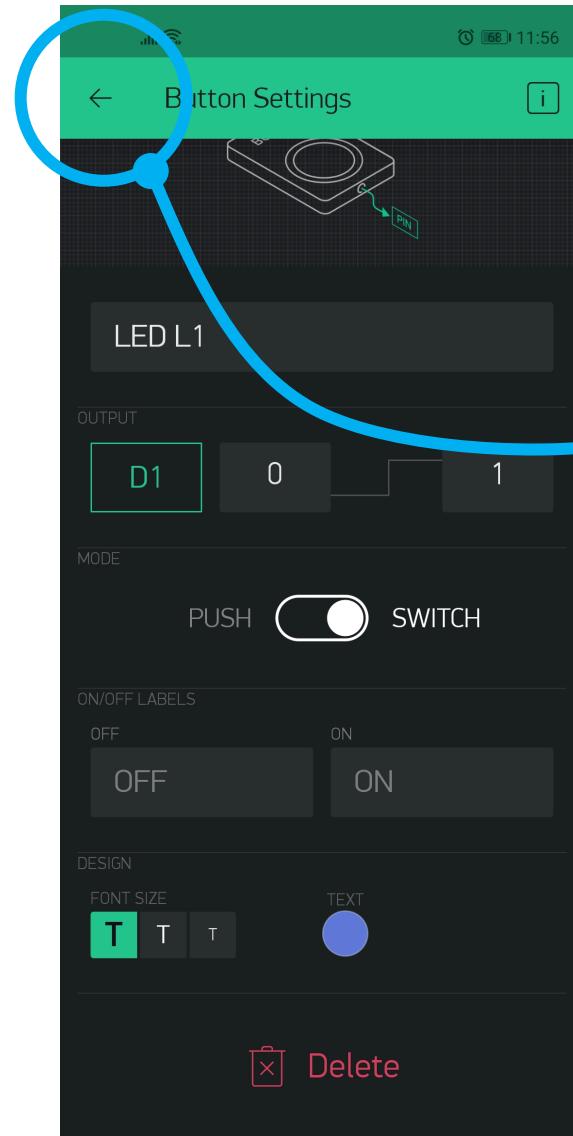
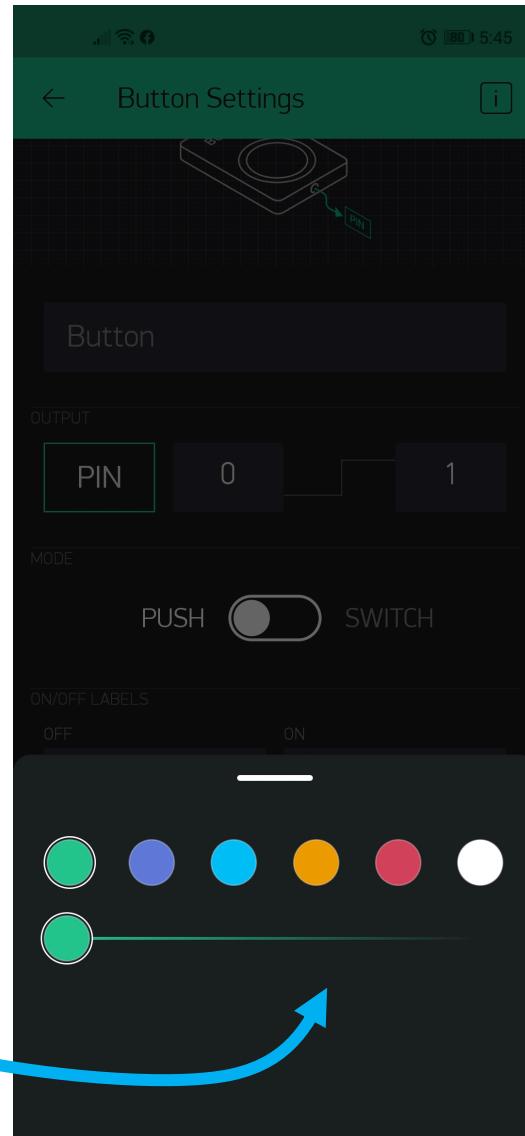
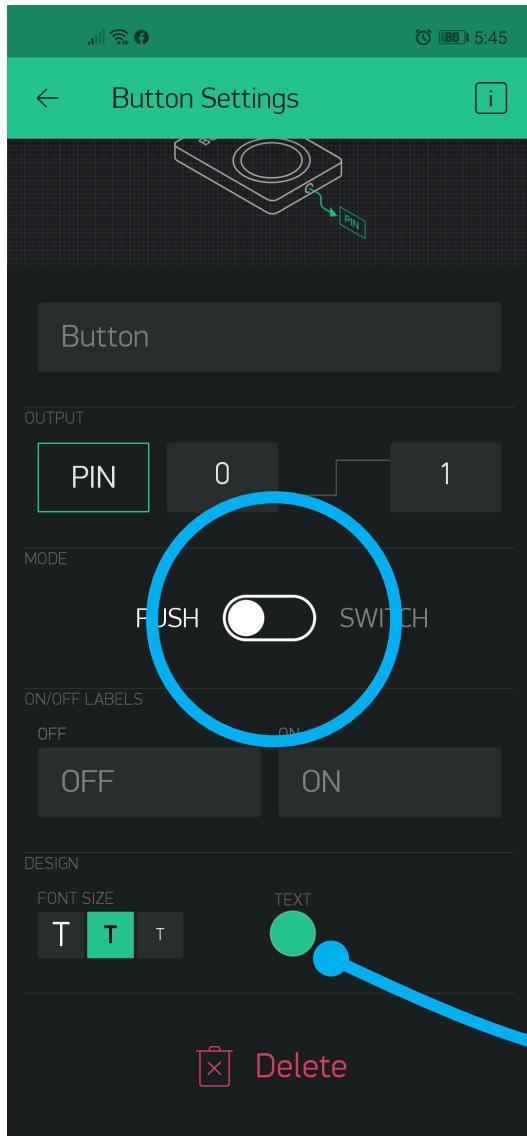


Blynk – Widget Settings (Button)

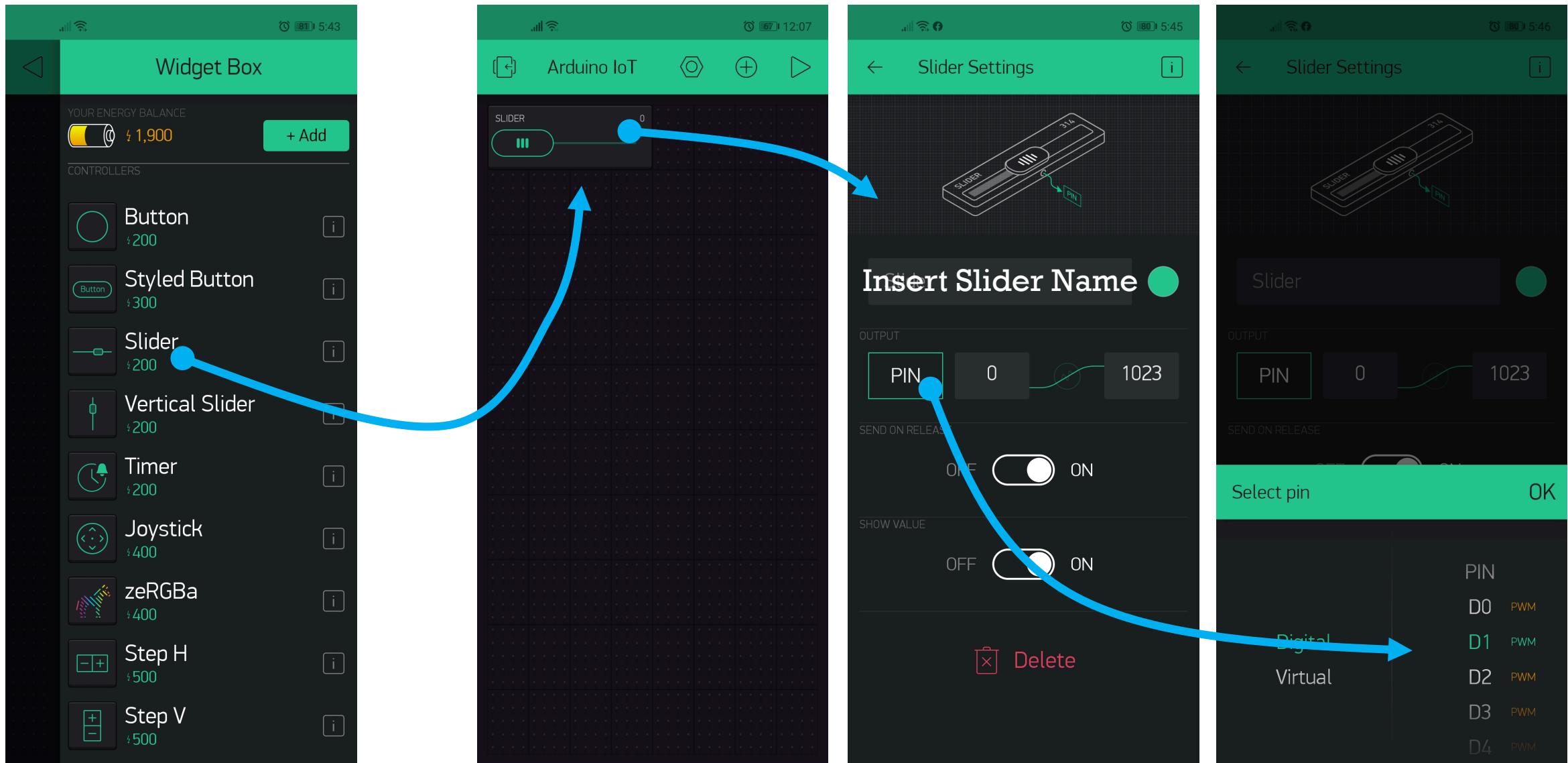


IO: D2

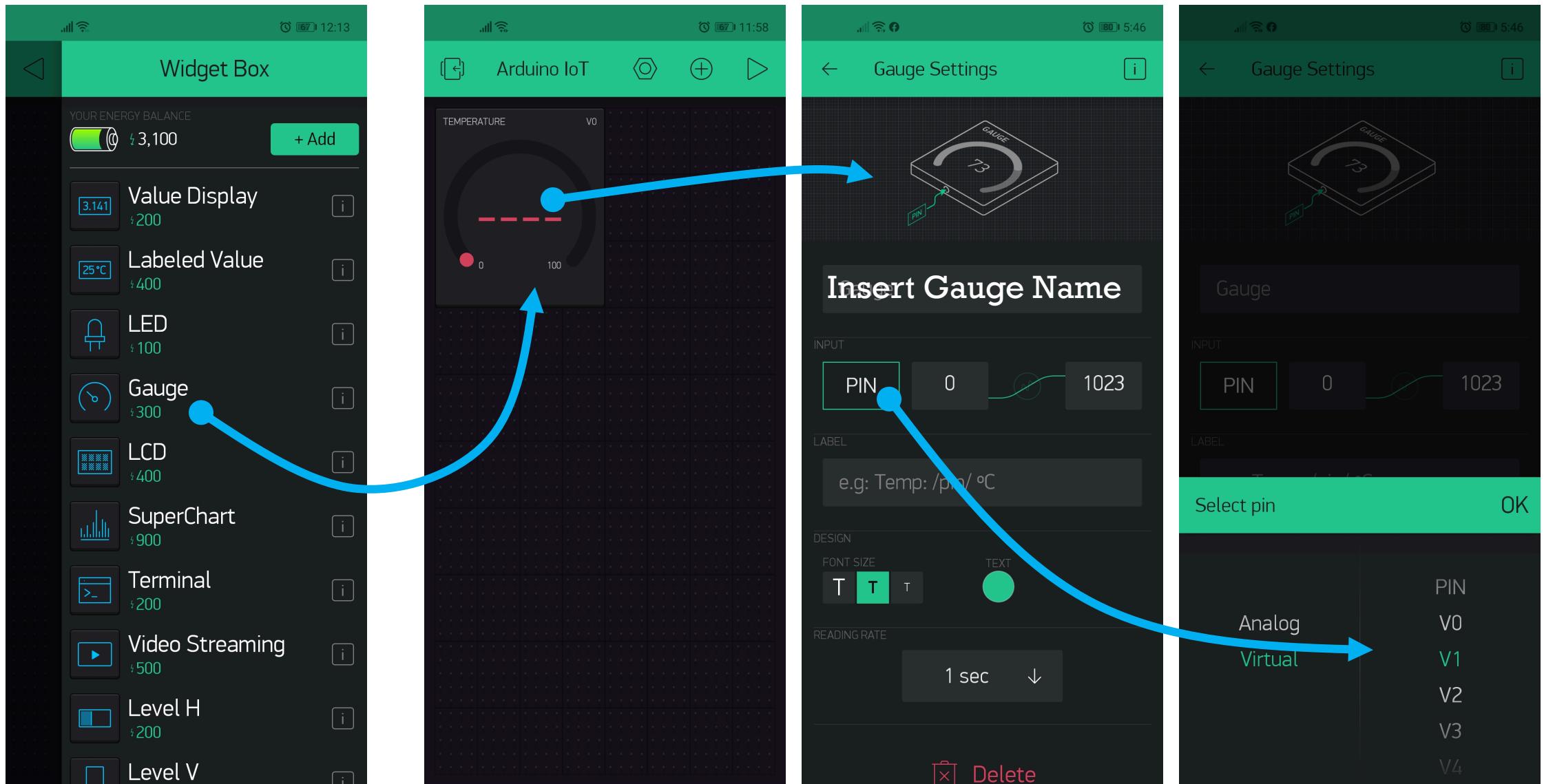
Blynk – Widget Settings (Button)



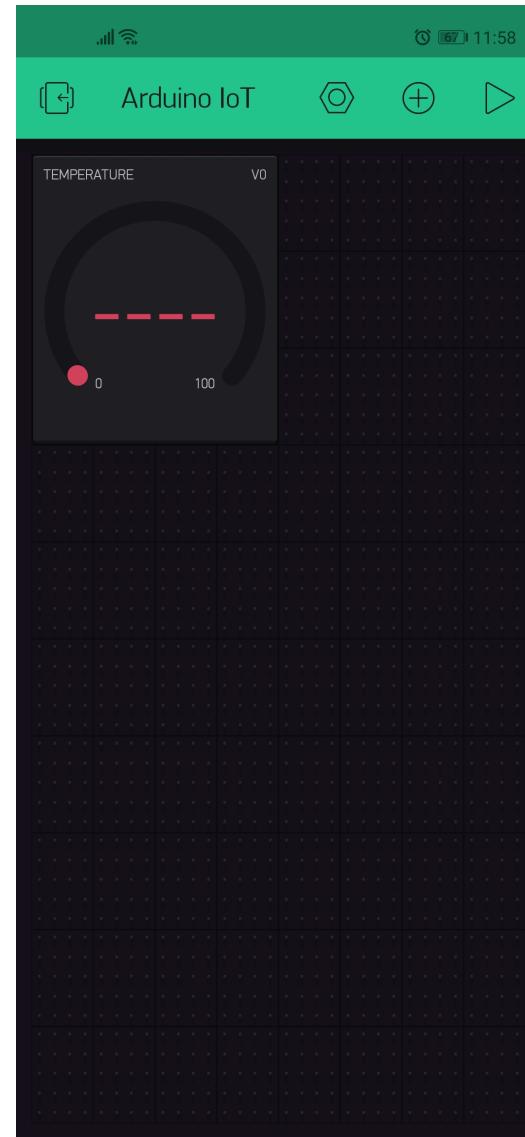
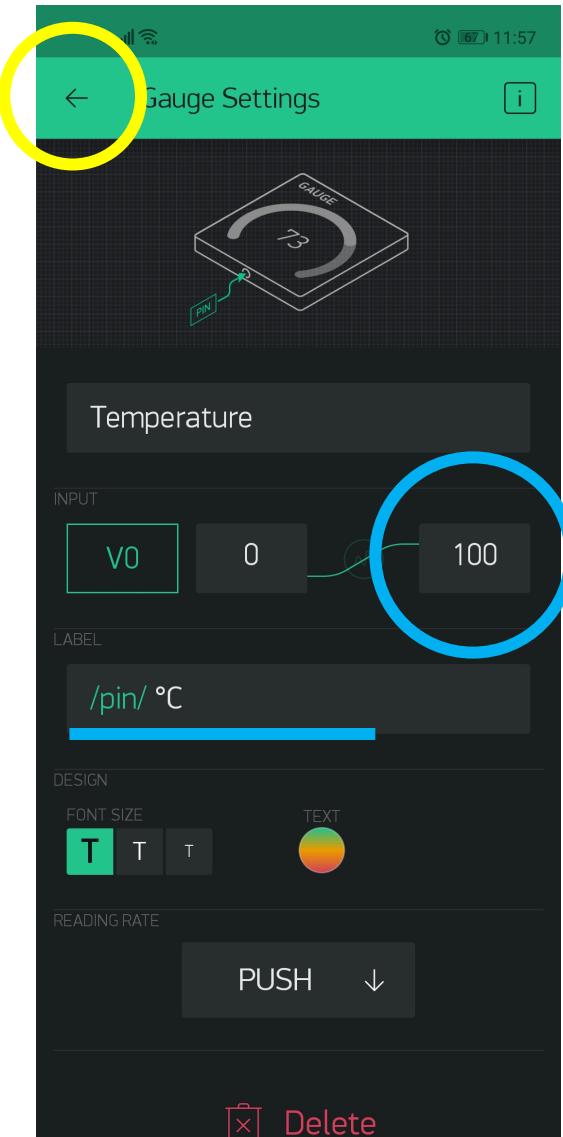
Blynk – Widget Settings (Slider)



Blynk – Widget Settings (Gauge)

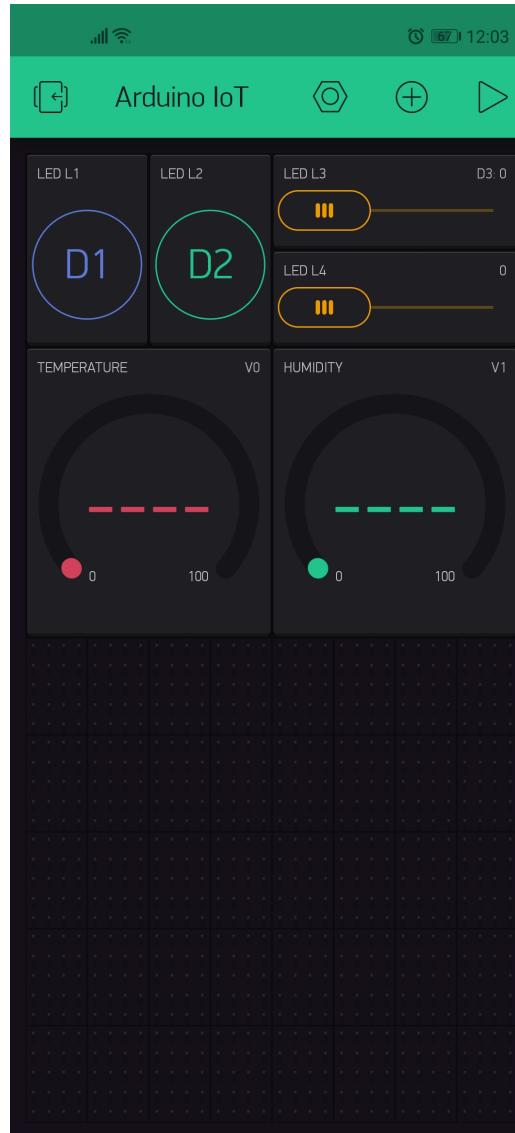


Blynk – Widget Settings (Gauge)



Blynk – Our Dashboard

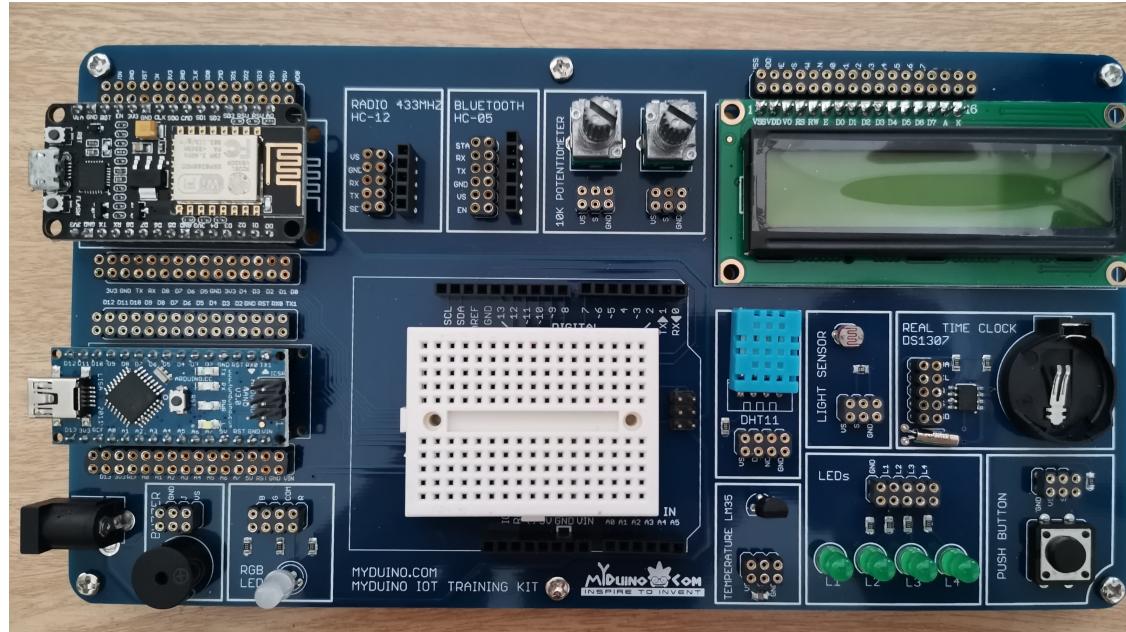
x2 Button Widget
LED L1: D1
LED L2: D2



x2 Slider Widget
LED L3: D3
LED L4: D4

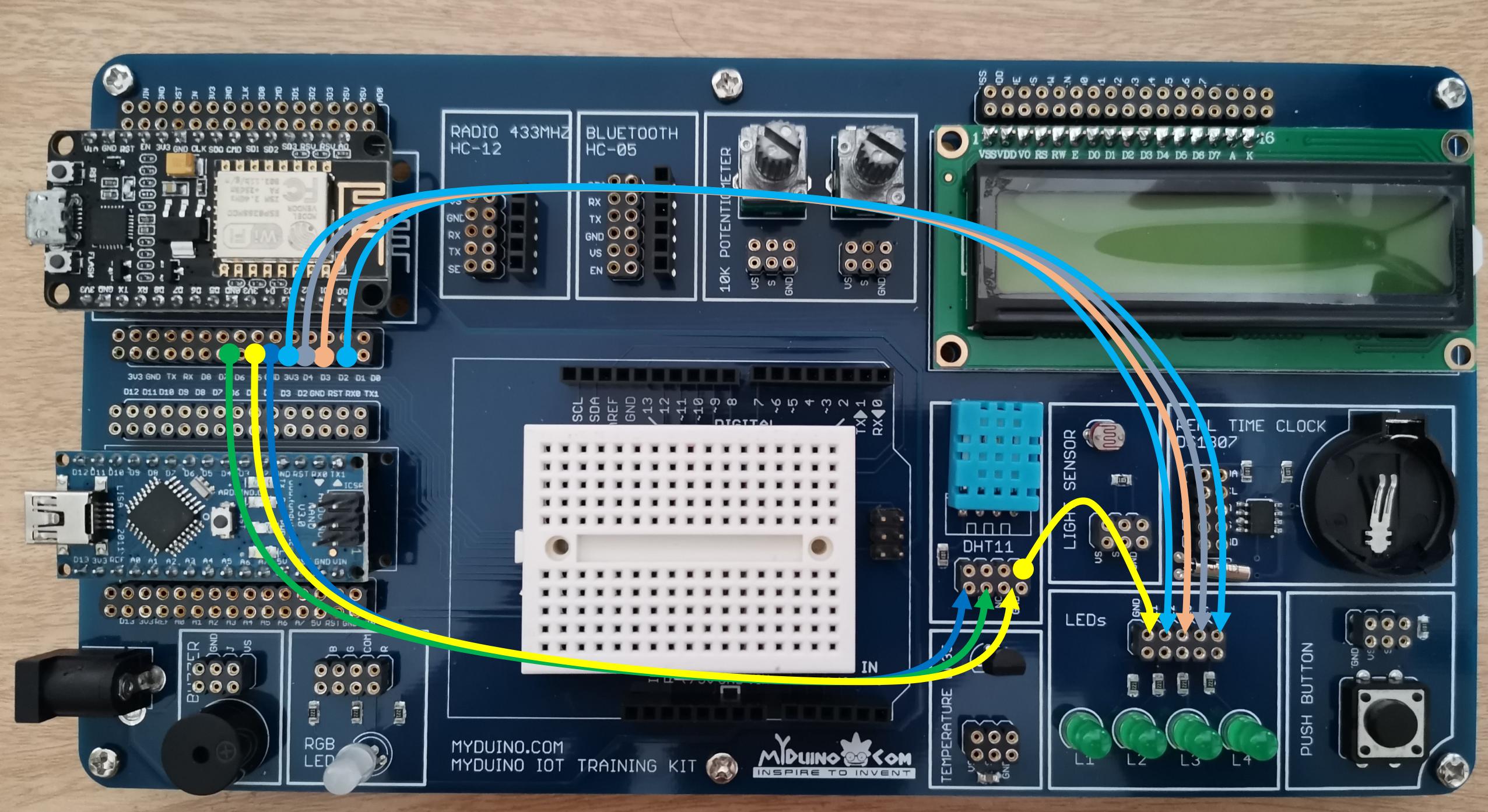
x2 Gauge Widget
Temperature: V0
Humidity: V1

IoT Device – Blynk



- Make sure Arduino IDE compatible to program ESP8266
- Interfacing LEDs to NodeMCU (Wiring)
- Interfacing DHT11 to NodeMCU (Wiring)
- Arduino IDE to create ESP8266 sketch for:
 1. Download Blynk Library
 2. Make use of Blynk Example to connect IoT Device to Blynk App

Let's Get Hands-on





```
NodeMCU
41 #include <ESP8266WiFi.h>
42 #include <BlynkSimpleEsp8266.h>
43
44 // You should get Auth Token in the Blynk App.
45 // Go to the Project Settings (nut icon).
46 char auth[] = "YourAuthToken";
47
48 // Your WiFi credentials.
49 // Set password to "" for open networks.
50 char ssid[] = "YourNetworkName";
51 char pass[] = "YourPassword";
52
53 void setup()
54 {
55     // Debug console
56     Serial.begin(9600);
57
58     Blynk.begin(auth, ssid, pass);
```

Required Information

1. Blynk Auth Token
2. WiFi SSID & Password
3. Data Acquisition from Sensor
4. Dataset including key & value

Virtul Pin Value
↓ ↓

Blynk.virtualWrite(V0, temperature);
Blynk.virtualWrite(V1, temperature);