Week – 3

Home Automation system with voice control (using IFTTT) and virtual switches using Blynk.

Requirements: Esp32 board, Relay Module, Adafruit cloud, IFTTT service

Process key point:

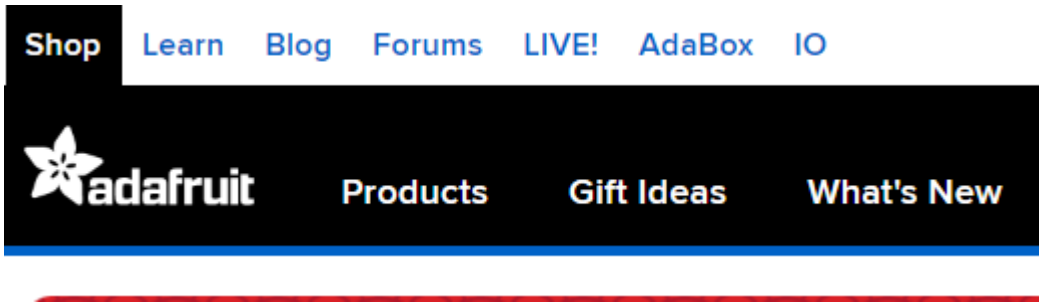
- Make the connections like shown in circuit diagram below –

- Configure the Blynk cloud or app according to provided

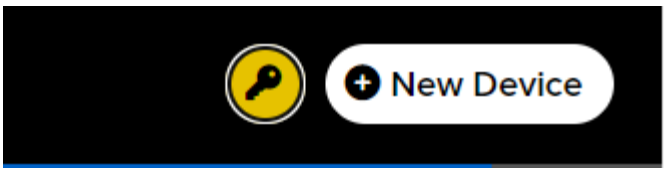
  “Blynk Tutorial pdf”

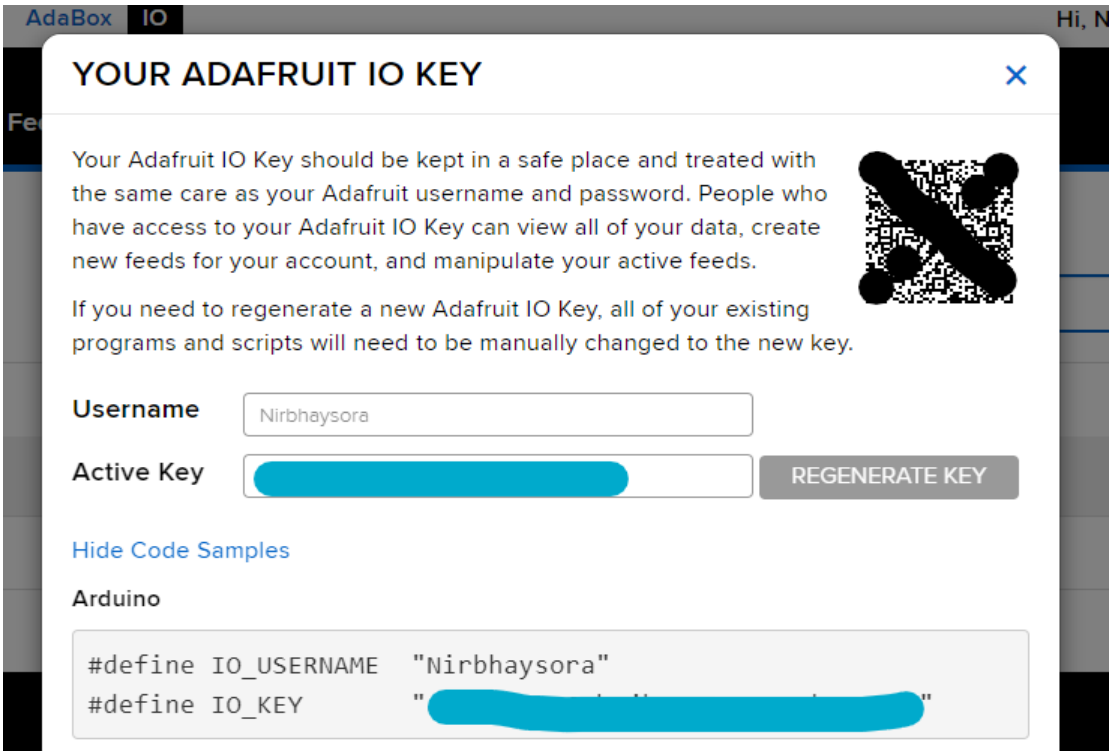
- Set up Adafruit

- Visit Adafruit.com and login/create your account
- Click on “IO” in top menu bar



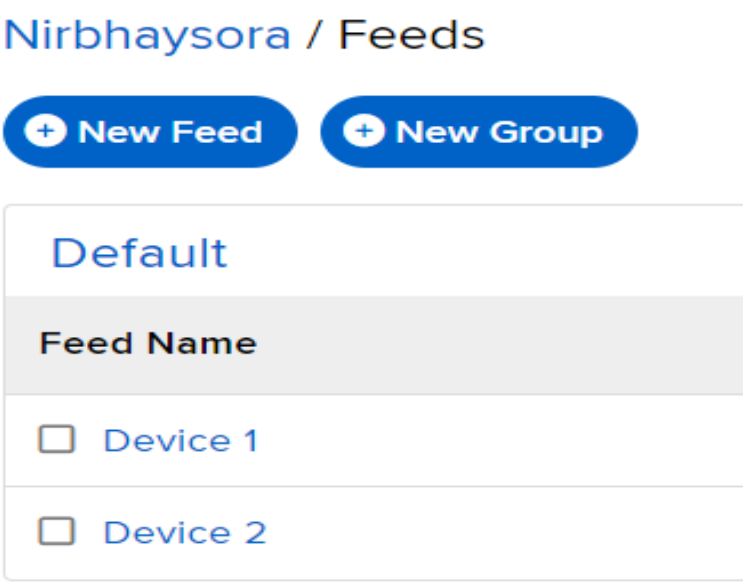
- Click on the Key icon on top right, here you will find your own “username” and “Authentication key”, Copy this and update the respective field in your code





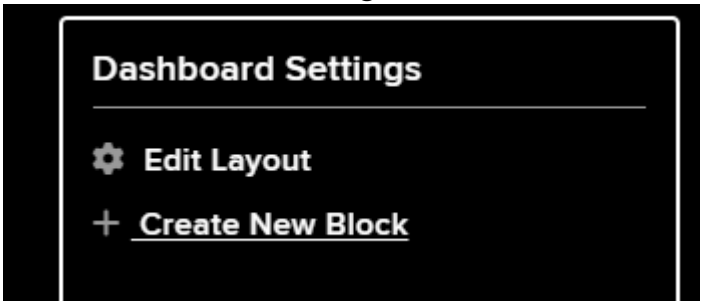
The code format is already given for Arduino IDE just update it in your code and “Don’t change anything else regarding Adafruit”

- Go to “Feeds” tab and create a new data feed to store the latest data as informed by the code.



- Now, we create our dashboard, click on “New dashboard” this dashboard will present our data. One per project is sufficient.

- Go to settings and select “create new block”



- Now select a block of your choice (toggle in our case) and choose the “feed” it should control

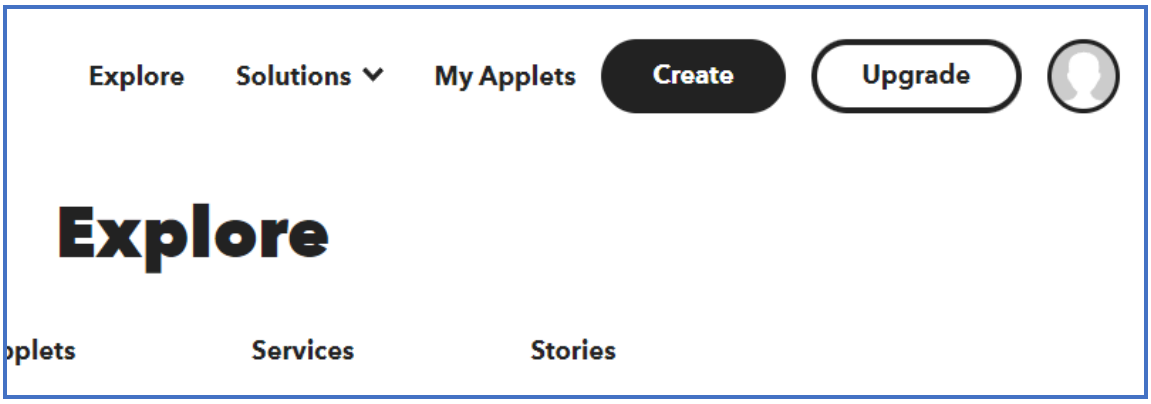
- Next, you have to give the switch a name and also set the ON and OFF value (ON when 1 and OFF when 0)

- You can add gauges and graphs if you wish

- Configure IFTTT:

- Visit ifttt.com and create your account with free plan

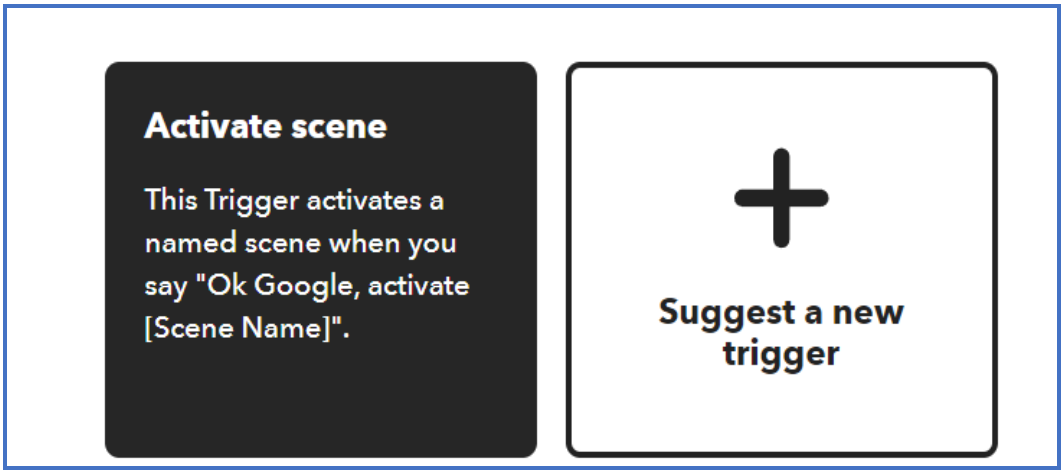
- Click on “Create”



- Select “ADD” to add the IF condition :

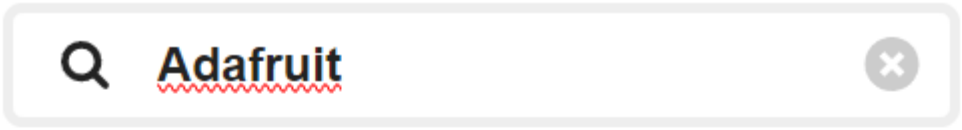
- You will see many available services, but for our work we will use “Google Assistant”; search and select it.

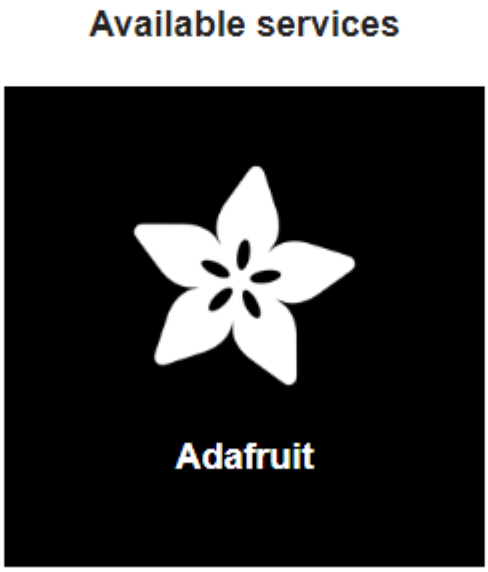
- Select the predefined Trigger available for our Free plan



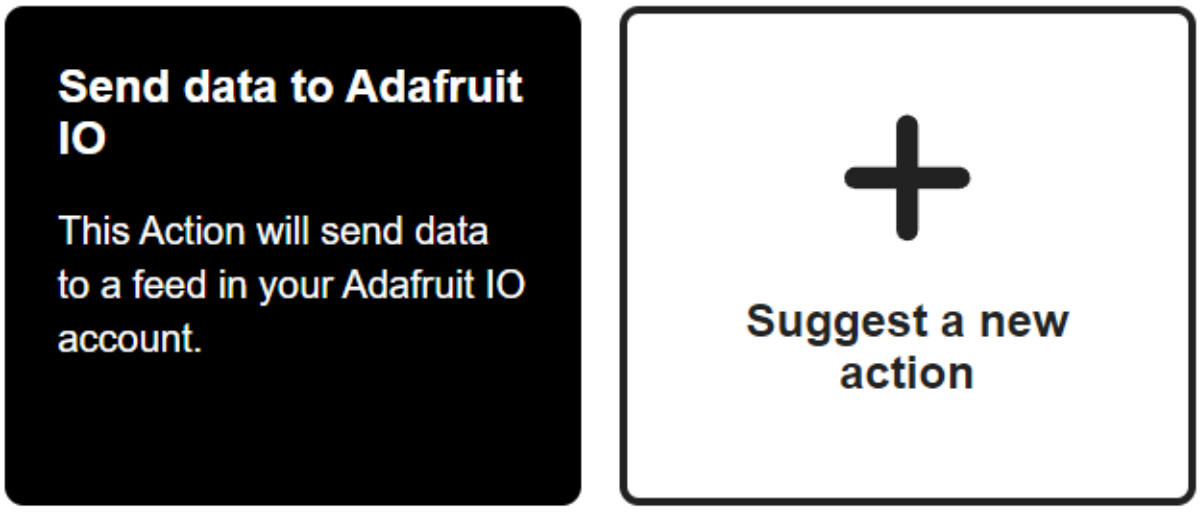
- Provide the command on which you want the Assistant to perform our work (turn ON or OFF the Device)

- Now we select the ADD option on “Then that” part and search and Select “Adafruit”:

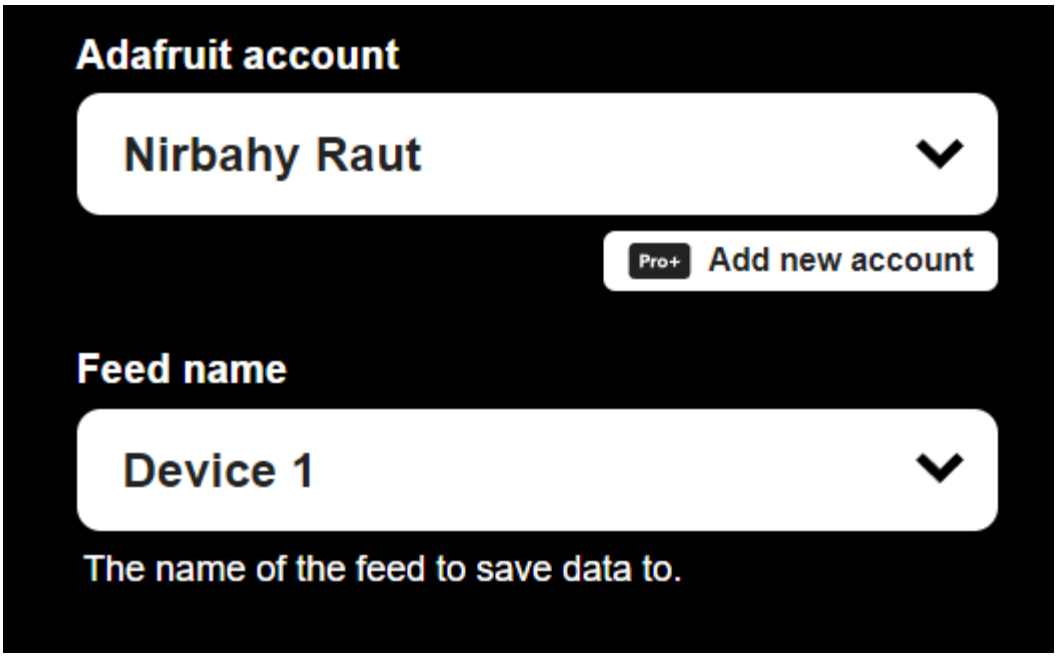




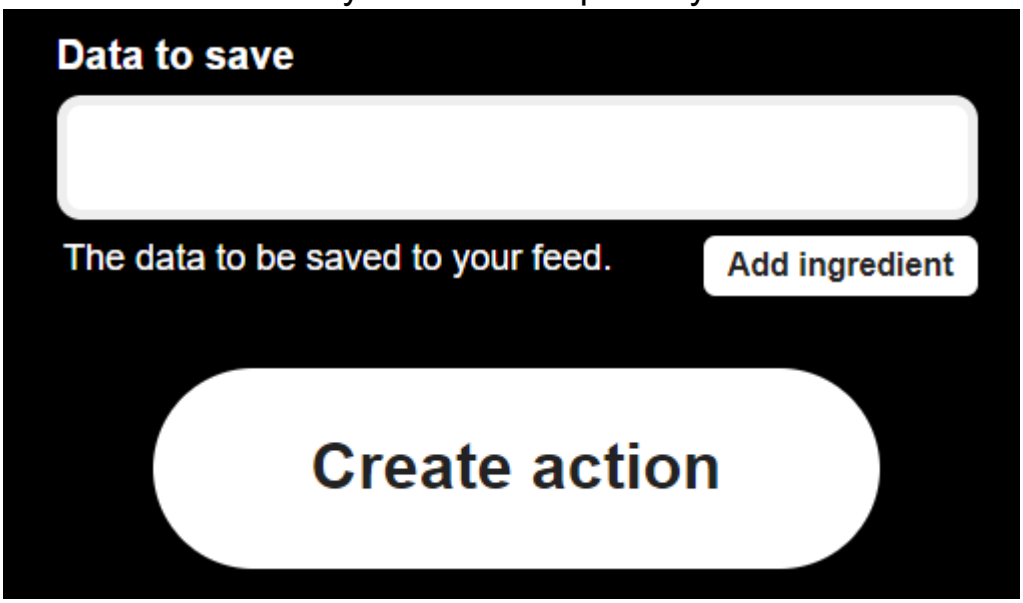
- Select available option of “send data to Adafruit”



- Then after you have connected the Adafruit with IFTTT you should be able to choose user and feed you want to update with voice command.



- Also add the value you want to update your feed to in “Data to save” entry



- Then click on “Create action and finish the Applet, we have to do this twice for every feed for turning the device “ON” and “OFF”

- Now, last step, we have to enable google assistance’s IFTTT support
  - Install Google home and sign in with the same Gmail id you used to register for IFTTT
  - Go to settings -> “Works with google”
  - And then search and select IFTTT, you should be able to see no. of devices or applets it is controlling.
  - Great!!!!! You are ready to Execute!!