

## Internet of things PROJECTS/INTERNSHIP

### College Name

→SRM Institute of Science and Technology.

### Company Name

→Vyorius.

### Domain

→Internet of things.

## Internship Project topics

1. Automatic Room Temperature Controller
2. Voice Control Home Automation

## 1.Voice control home automation

### Software's In detail



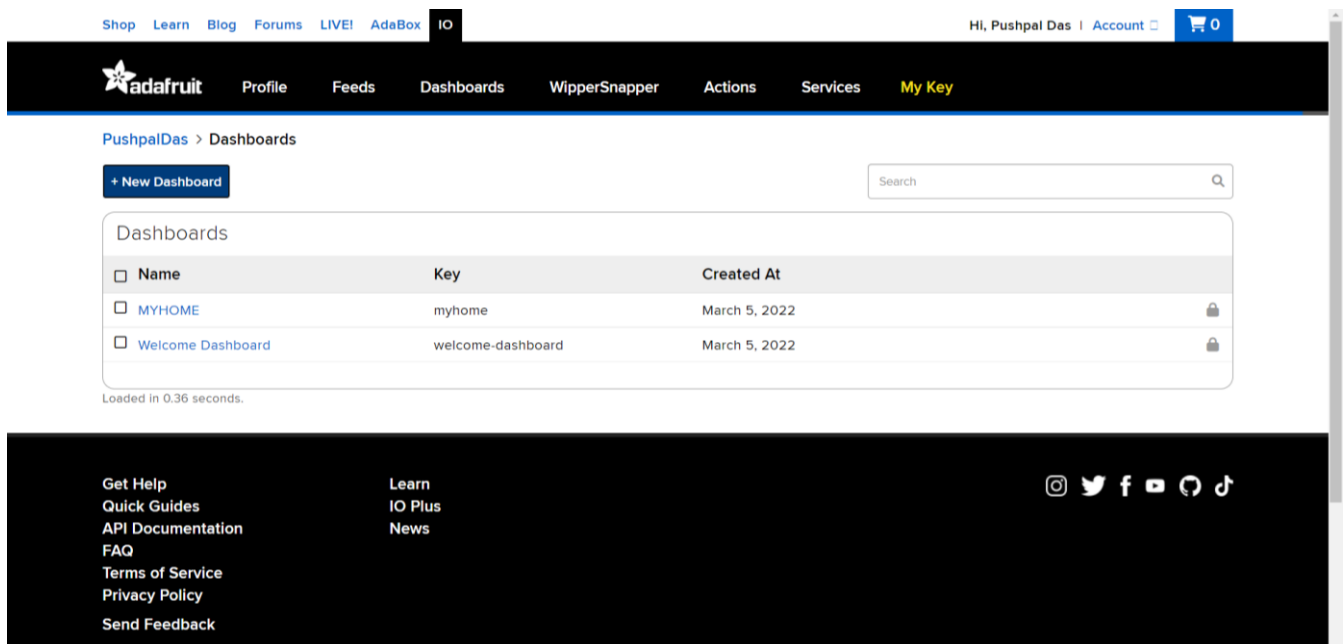
Adafruit.io is a cloud service - that just means we run it for you and you don't have to manage it. You can connect to it over the Internet. It's meant primarily for storing and then retrieving data but it can do a lot more than just that!



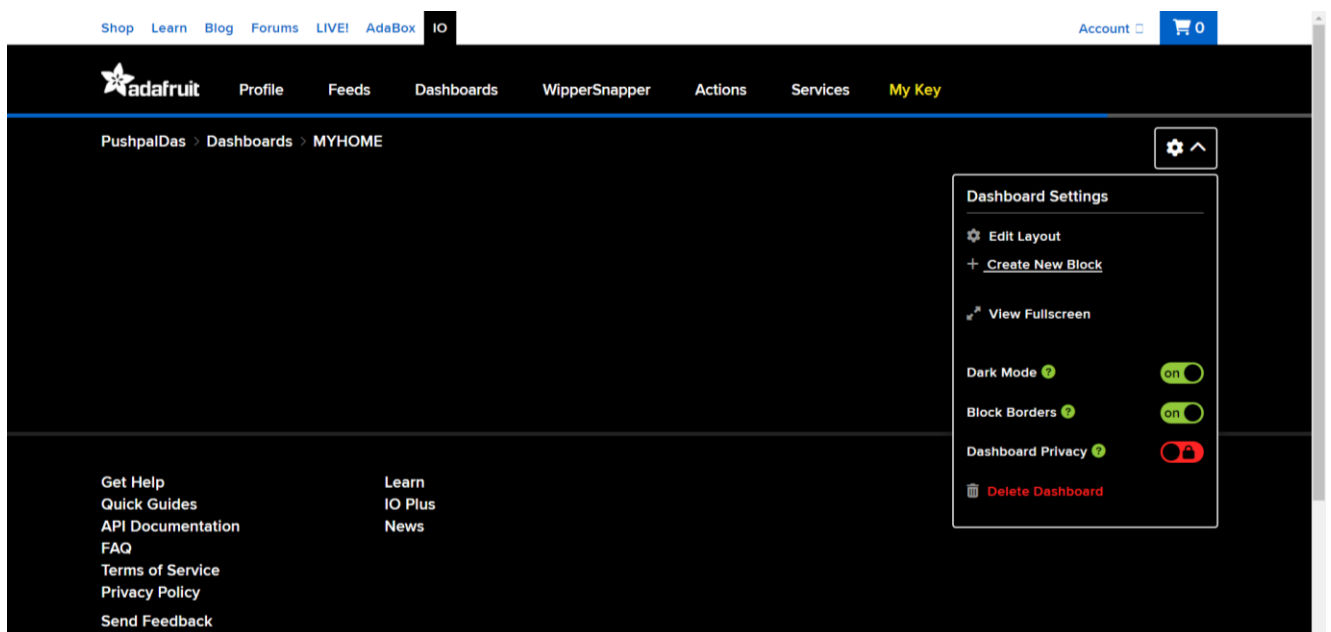
IFTTT allows you to do more with over 700 different apps and services, including Twitter, Dropbox, Evernote, Fitbit, Amazon Alexa, and Google Assistant. We bring services together into Applets, automations that allow you to do things your apps and devices can't do on their own.

## **Procedure**

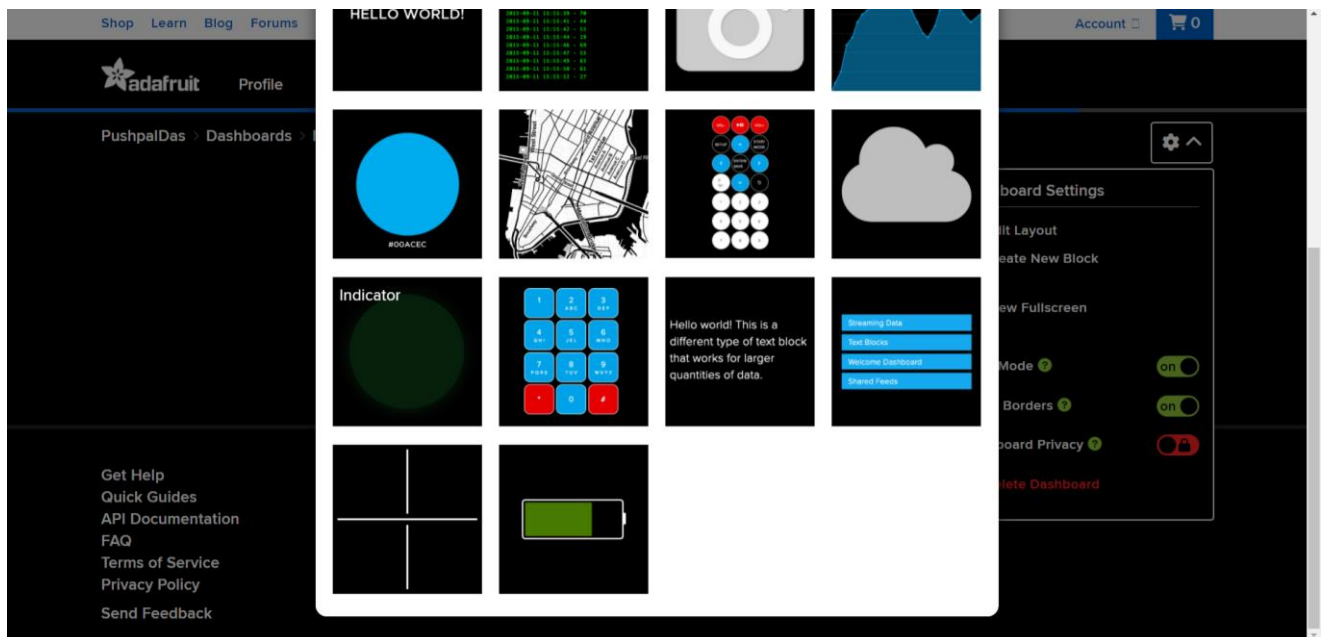
Open Adafruit io in google, create an account and go to IO and create a dashboard there.



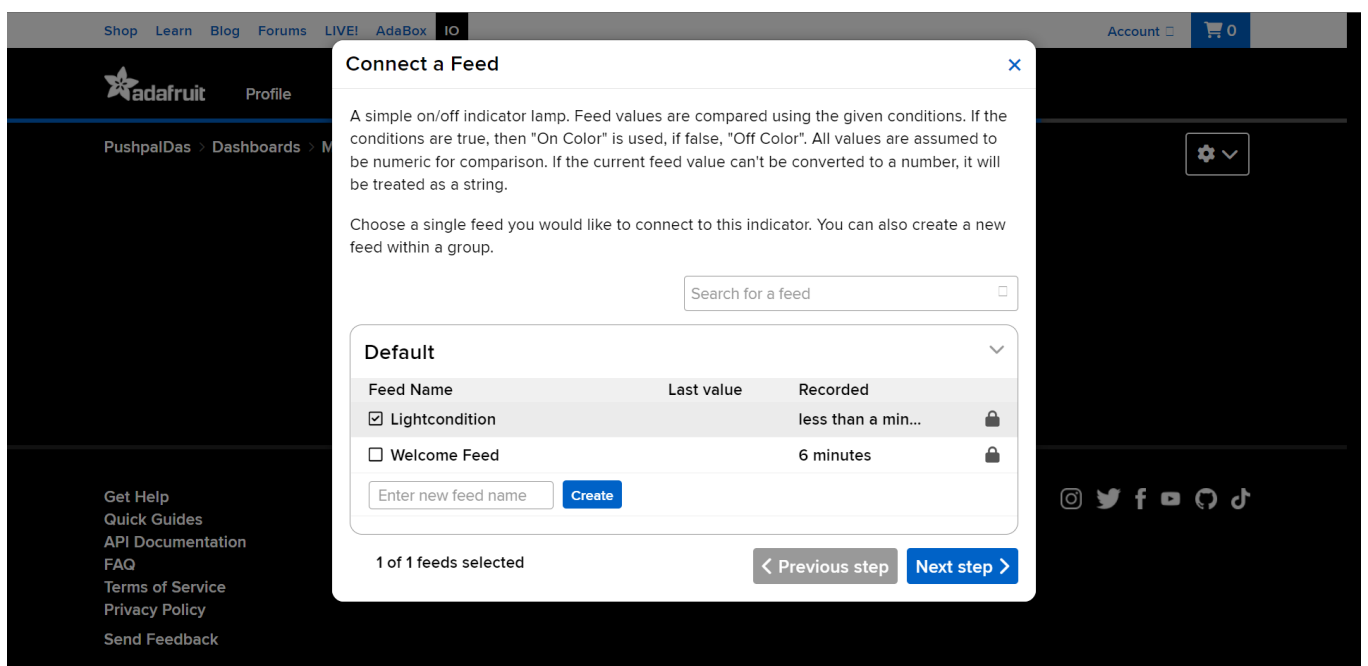
## Create new block



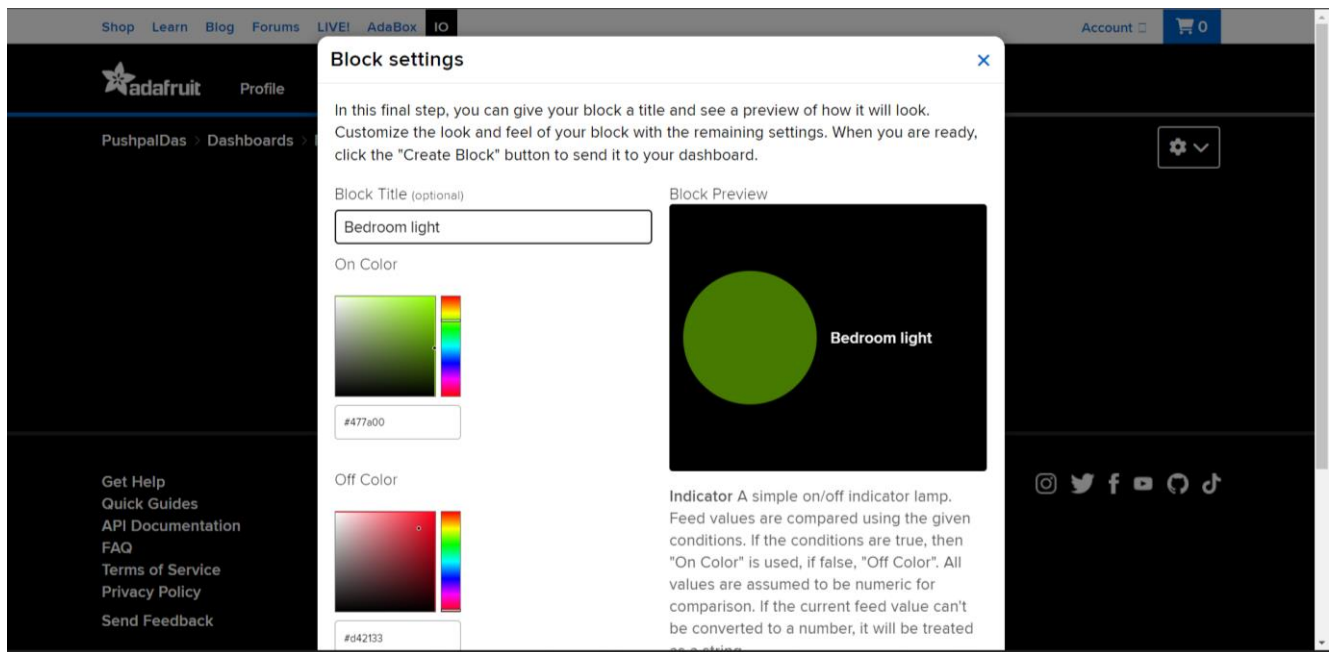
## Chose indicator



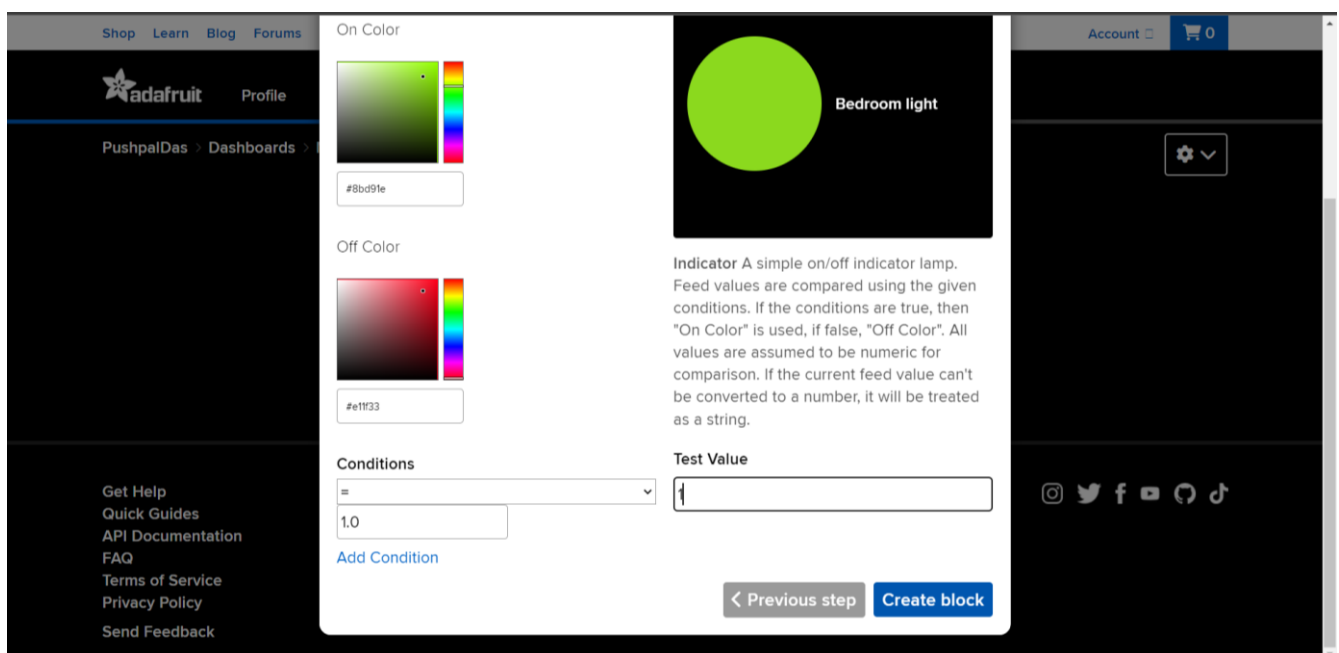
Create a feed and select on next steps



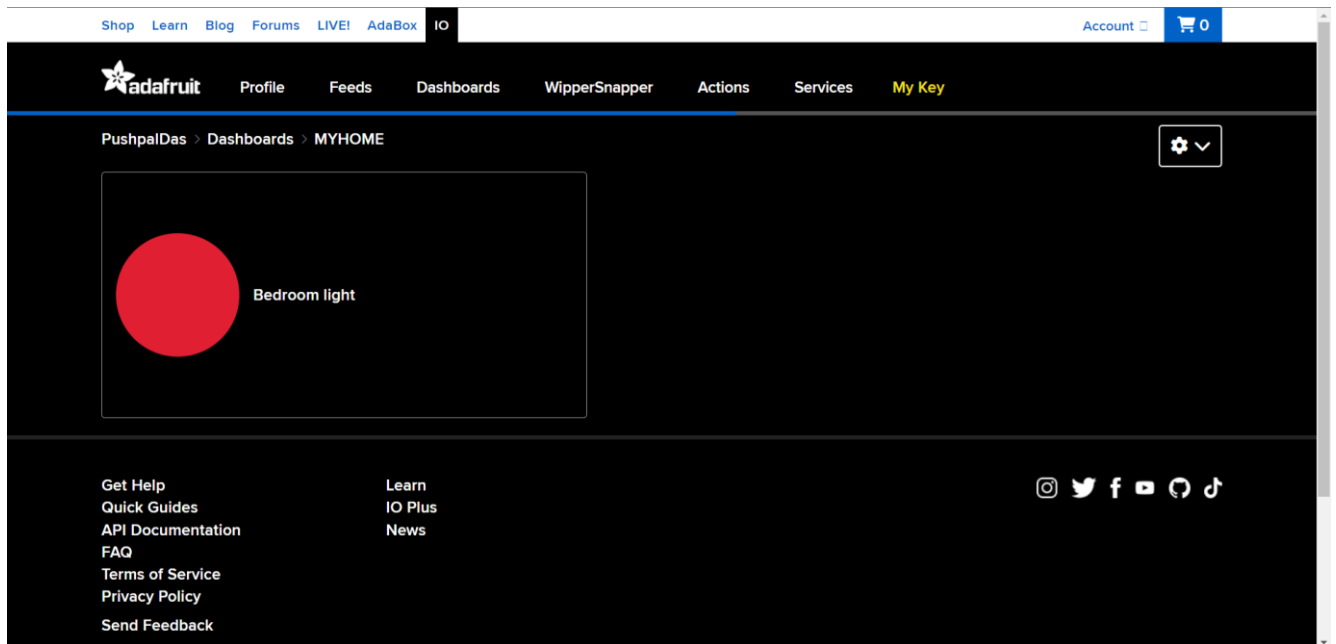
Give a name to the block



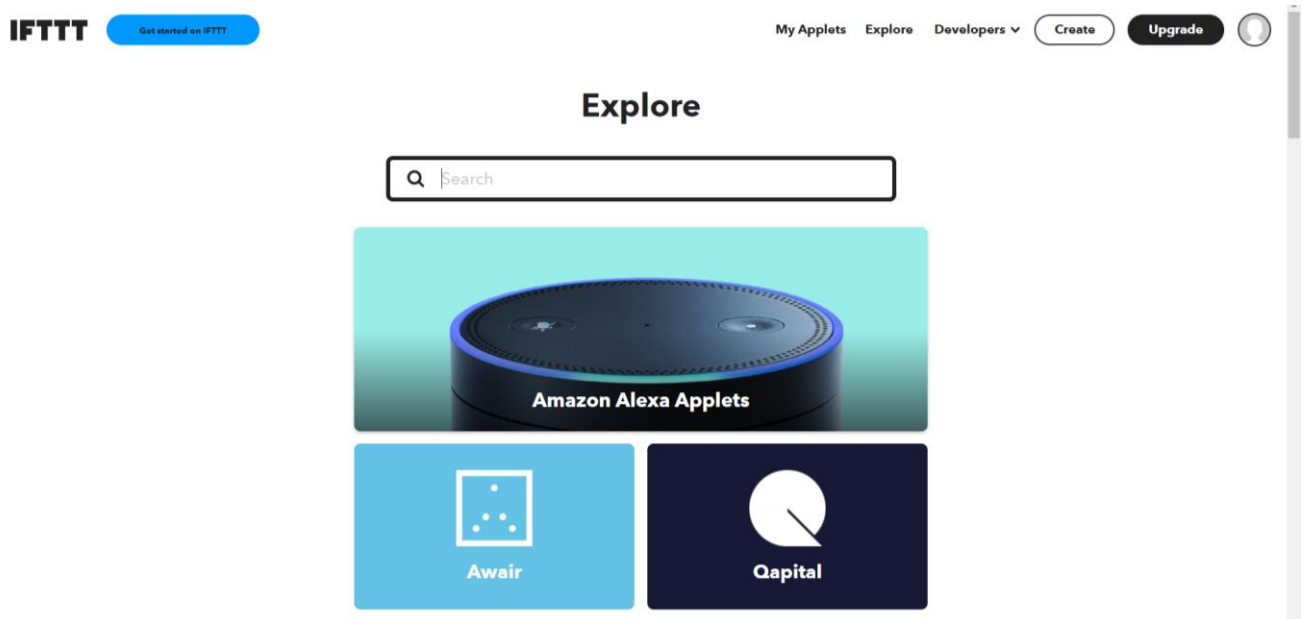
Create the block after assigning the condition properly



Thereby we successfully created our dashboard.



Google IFTTT and login to get started



Go to My Applets and click on Create

You're using 0 of 5 Applets



Choose the service as Google assistance

← Back

Create your own

?

Q goog

×

Google Docs

Google Wifi

Google Drive

Google Tasks

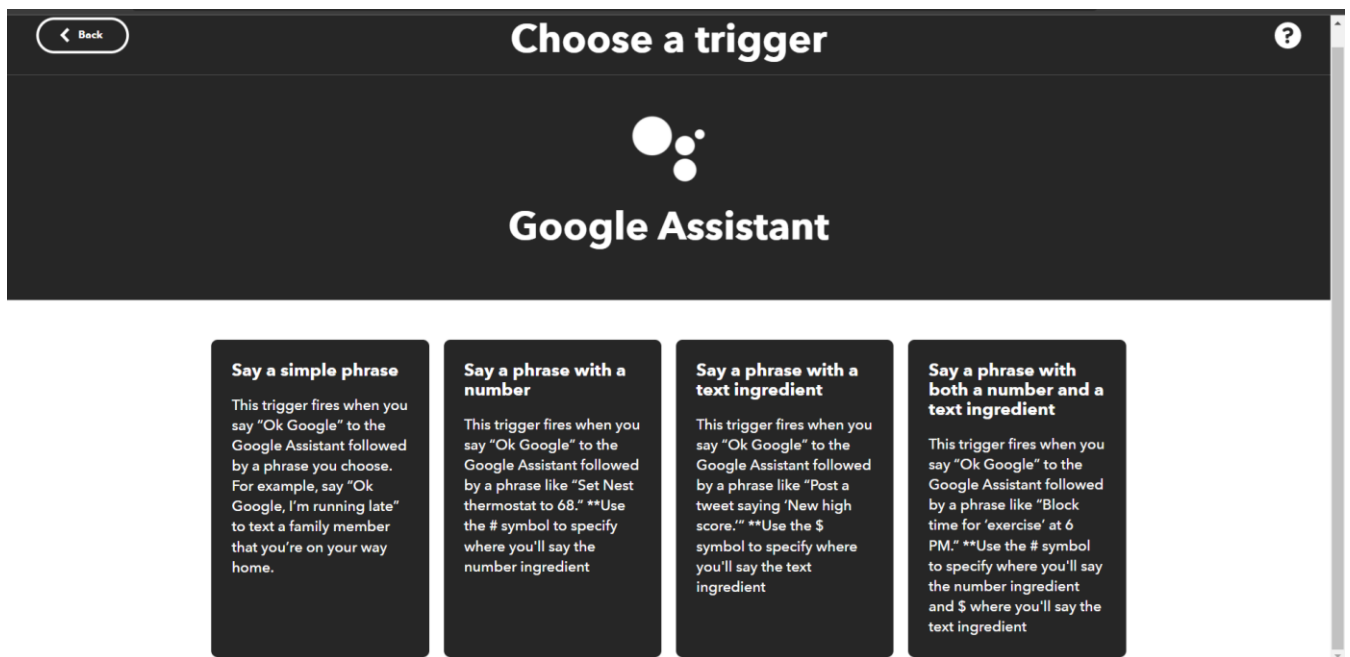
Google Sheets

Google Calendar

Google Contacts

Google Assistant

Chose the trigger as the first one

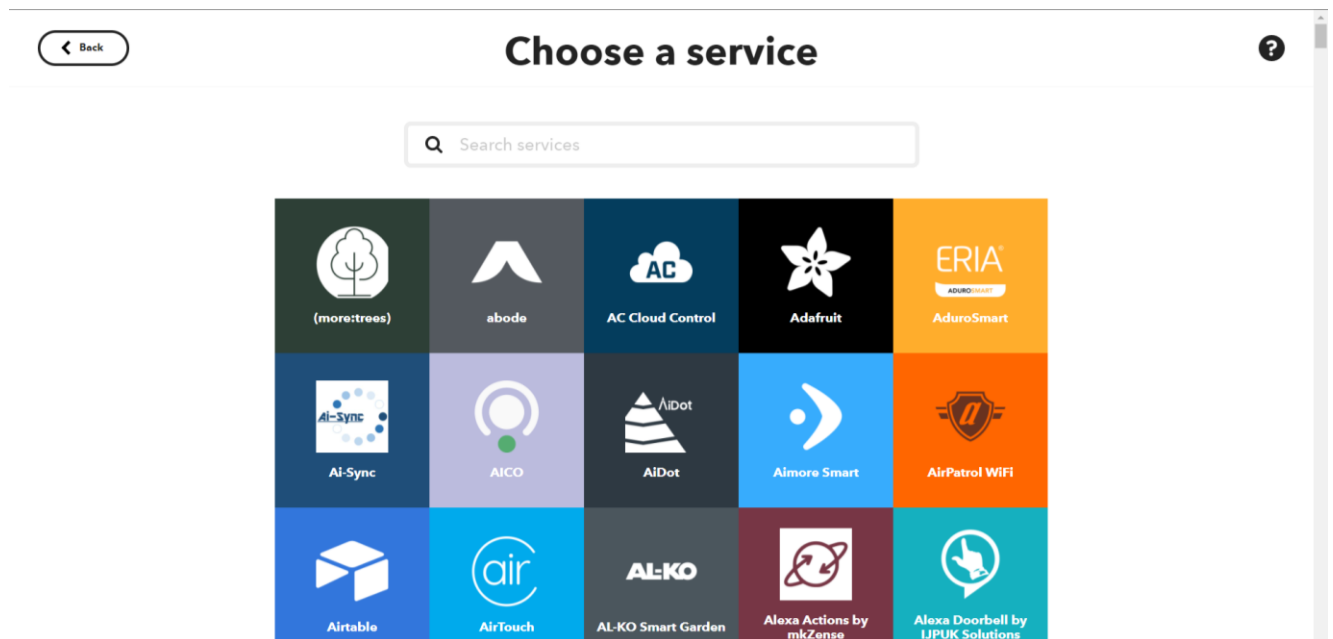


After connection with your google account, create a trigger

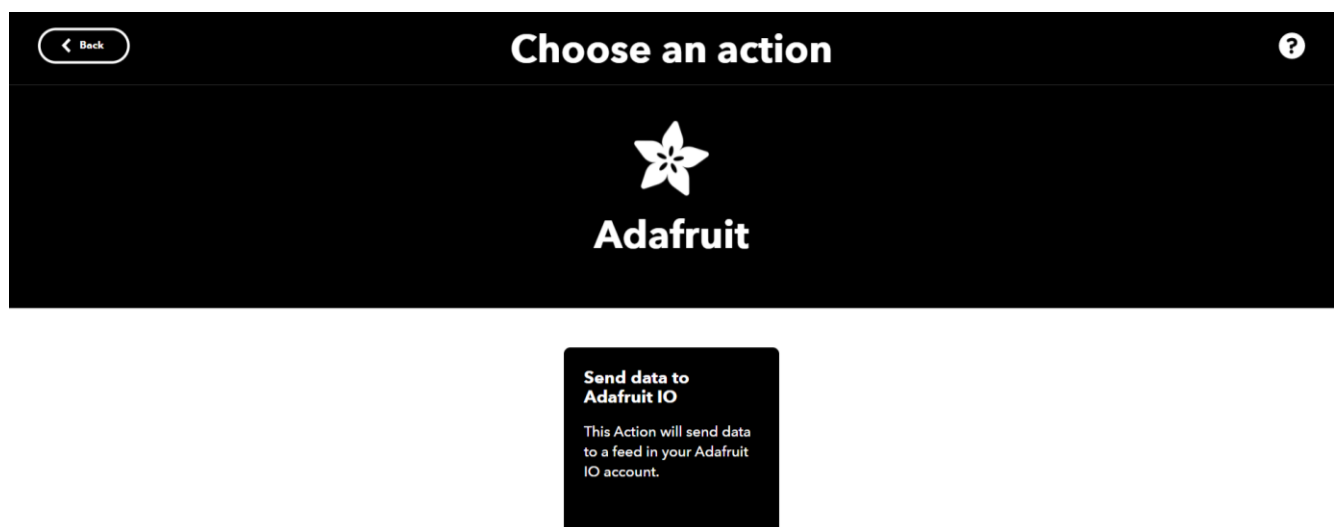
This screenshot displays the form for creating a new trigger. It includes a small instructional text at the top: 'This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase you choose. For example, say "Ok Google, I'm running late" to text a family member that you're on your way home.' The form consists of several input fields: 'What do you want to say?' with the example 'Turn on the light'; 'What's another way to say it? (optional)' with the example 'Way too dark'; 'And another way? (optional)' with the example 'Led on'; and 'What do you want the Assistant to say in response?' with the example 'Thank you Pushpal, I am turning on the light'. There is also a 'Language' dropdown menu currently set to 'English'. A 'Create trigger' button is located at the bottom of the form.

After creating the trigger chose on THEN THAT, and chose the service as Adafruit

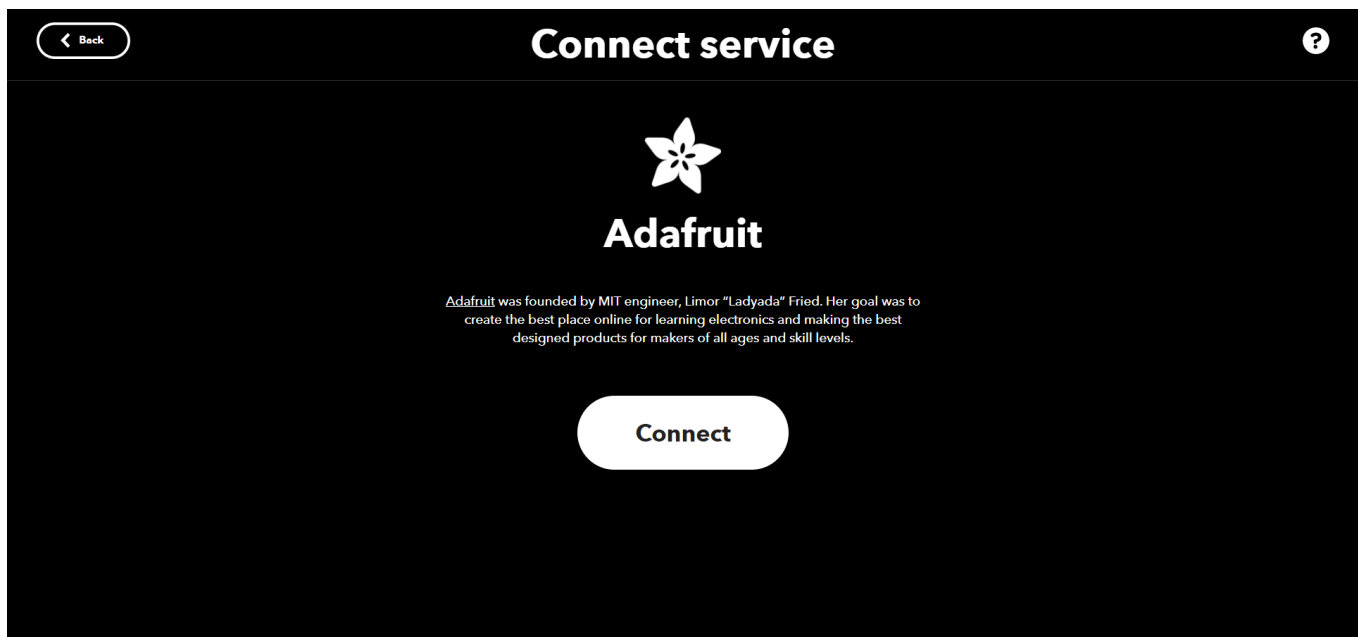




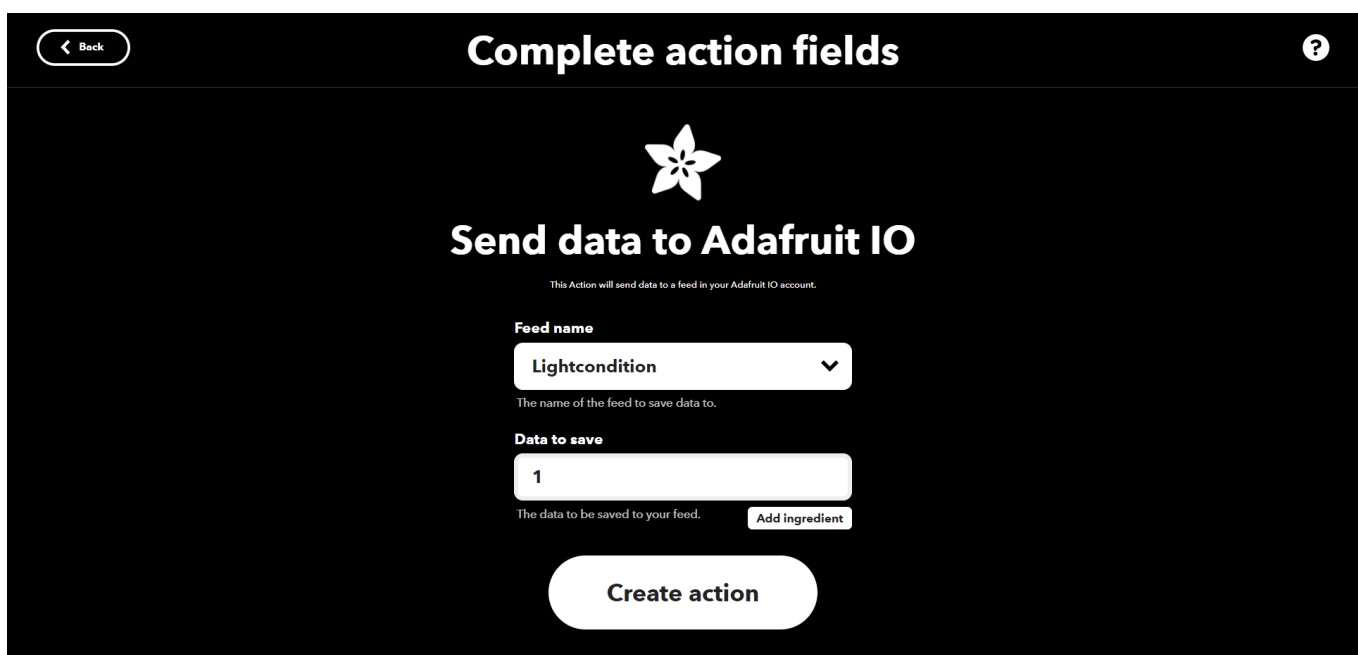
Send the data



Connect



Select the feed name and data to be send



Same way creates another trigger for turning off the light and finish off with another applet

This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase you choose. For example, say "Ok Google, I'm running late" to text a family member that you're on your way home.

What do you want to say?

Please turn off the light

What's another way to say it? (optional)

Too bright

And another way? (optional)

Led off

What do you want the Assistant to say in response?

Thank you Pushpal, I am turning off the light

Language

English

Create trigger

So now we have two applets for turning on and off the light as we can see,

IFTTT [Get started on IFTTT](#) [My Applets](#) [Explore](#) [Developers](#) [Create](#) [Upgrade](#)

## My Applets

Filter

All (2 of 5) Published Archive [Get Pro to get 20 Applets](#)

If You say "Please turn off the light", then Send data to Lightcondition feed

by pushpal2001

Connected

1

If You say "Turn on the light", then Send data to Lightcondition feed

by pushpal2001

Connected

1

12:30



please turn off the light

Thank you Pushpal, I am turning off the light

please turn on the light

Thank you Pushpal, I am turning on the light

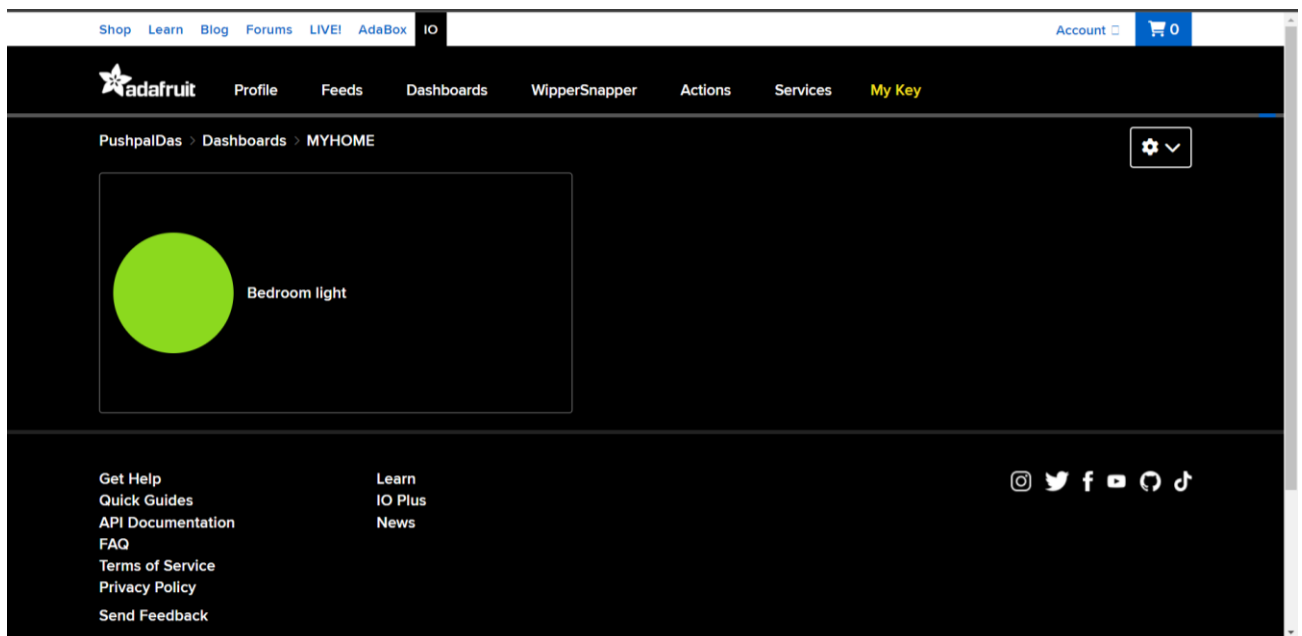
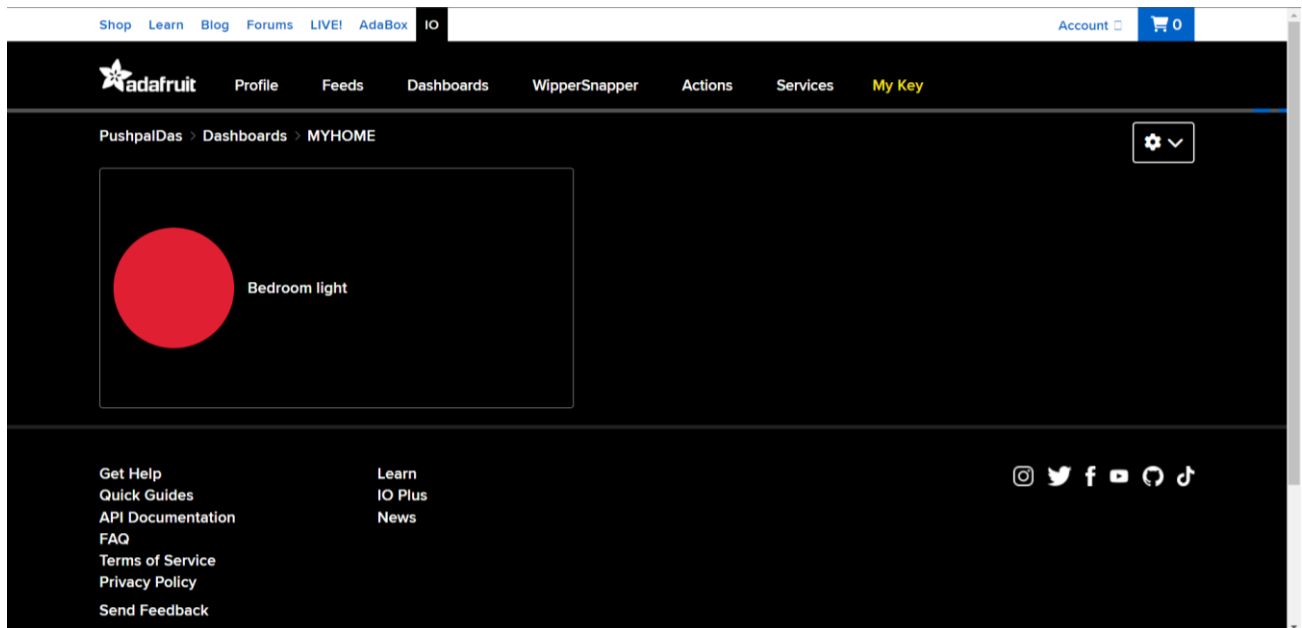
please turn off the light

Thank you Pushpal, I am turning off the light

please turn on the light

Thank you Pushpal, I am turning on the light





## Conclusion

Voice Based Home Automation System is a project for the handicap and old peoples. In this project every possible group is taken into consideration like light, fan, etc. Based on this group there are different commands and that commands are used to trigger that particular device either ON or OFF. It reduces the consumption of energy as the devices are controlled by voice and if the user forgets to turn of the device SMS is send to remind the user about turning OFF the device.