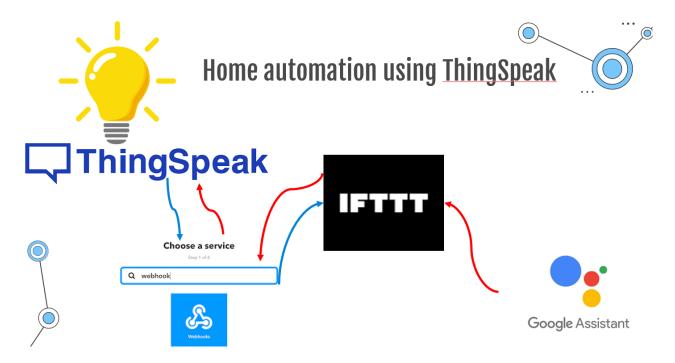
Ex.No:- 2 IoT for smart home application

OBJECTIVES

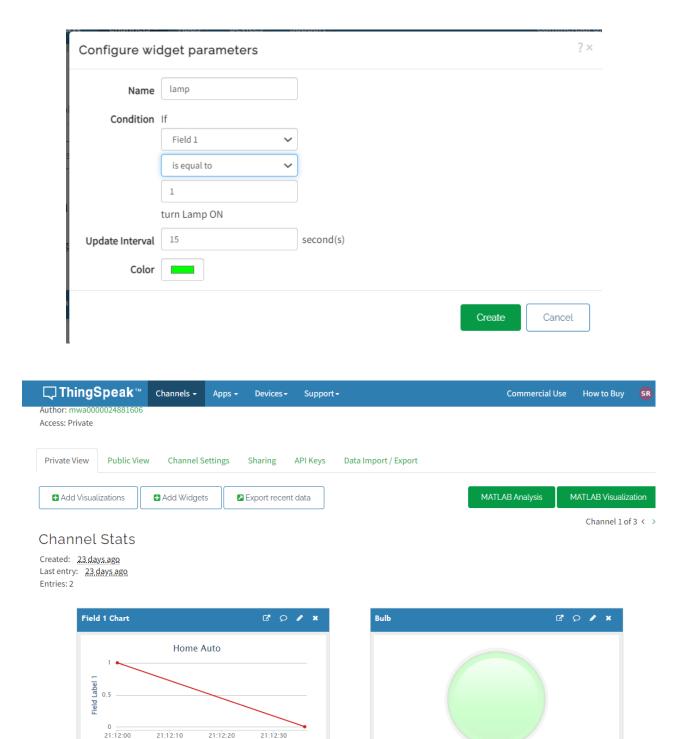
The method of regulating house appliances automatically utilizing various control system approaches is known as IoT home automation. Various control mechanisms may be used to regulate electrical and electronic equipment in the house, such as windows, refrigerators, fans, lights, fire alarms, kitchen timers, and so on.



PROCEDURE:

Step 1:

- 1. Create a channel in the Thingspeak, to read a field data.
- 2. Using Add widgets, add lamp indicator for the field 1 data and configure the widget parameter as shown below.



3. From the API keys use write channel feed URL to turn ON or OFF the lamp

24 days ago

21:12:10

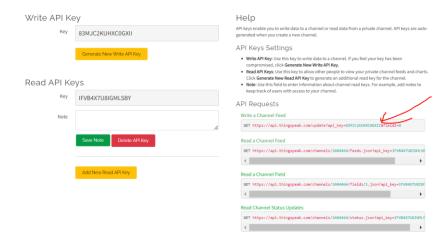
21:12:20

Date

21:12:30

ThingSpeak.com

ON: https://api.thingspeak.com/update?api key=83MJC2KXXXX0GXII&field1=1 OFF: https://api.thingspeak.com/update?api key=83MJC2KXXXX0GXII&field1=0

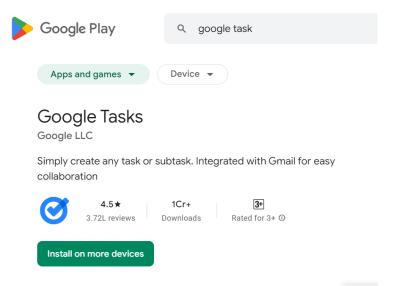


Note: Since we are using free version we can use only one automation command at a time. Hence, let the lamp be in OFF position

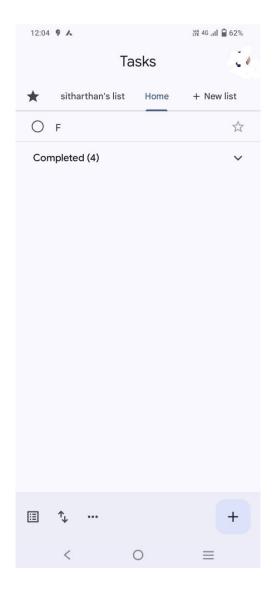
OFF: https://api.thingspeak.com/update?api key=83MJC2KXXXX0GXII&field1=0

Step 2:

1. Download and install google tasks from play store (Iphone users from APP store)

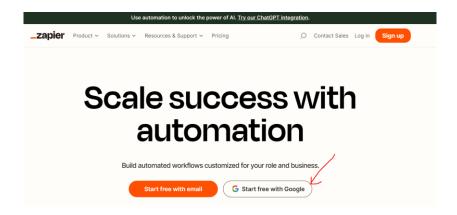


2. Click on new list to create task list and Name them as Home or any user defined.



Step 3:

- 1. Open Zapier using the URL- https://zapier.com/
- 2. Click on Start free with google, use your google login id to start with.



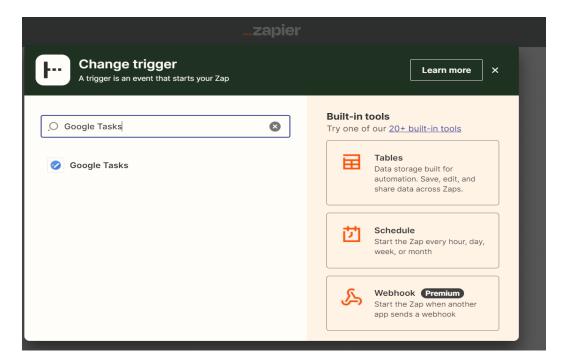
3. Click on Create Zap to create automation project.



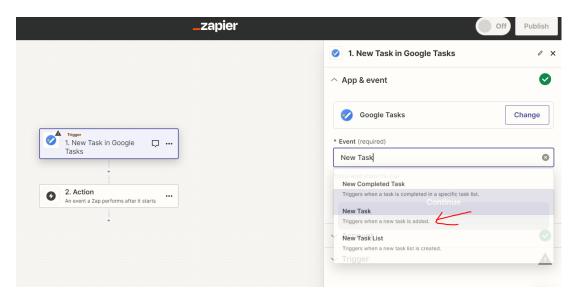
4. Use Trigger and Action method, Click on the trigger to configure.



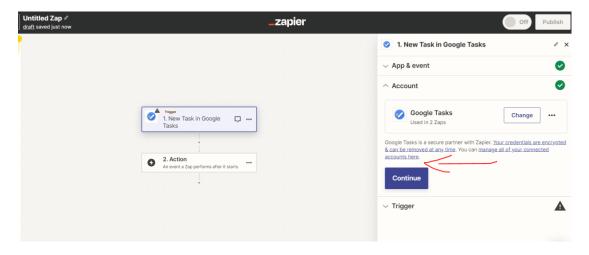
5. Trigger: search for google tasks and choose it.



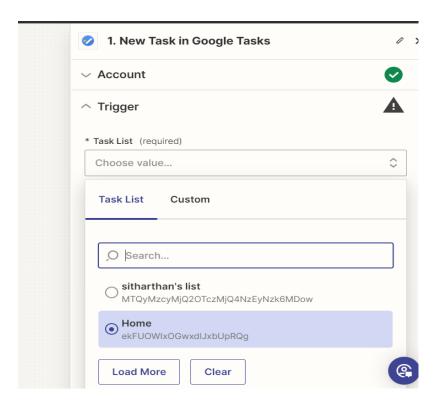
- 6. Follow the figure to Configuring the trigger: Google tasks
- 7. APPS and Events: Select New Task



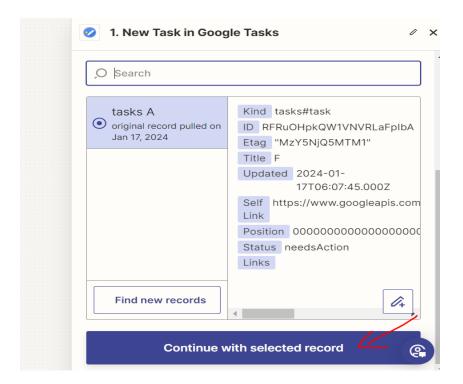
8. Accounts: Use your Google ID to proceed with.



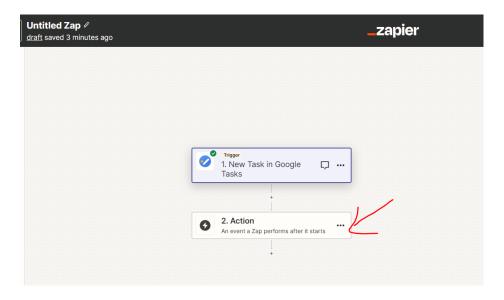
9. Trigger: under the task list, select the task what you have created in your google tasks app.



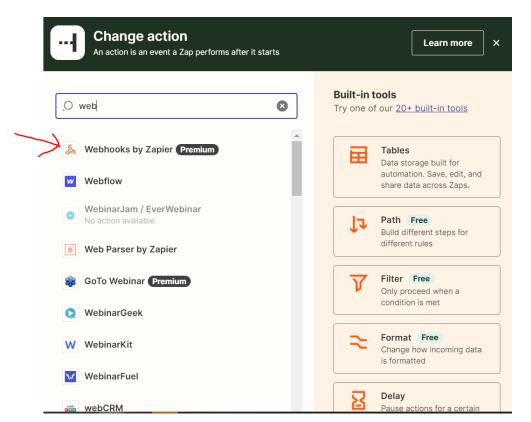
10. Test: test and click on continue with selected record



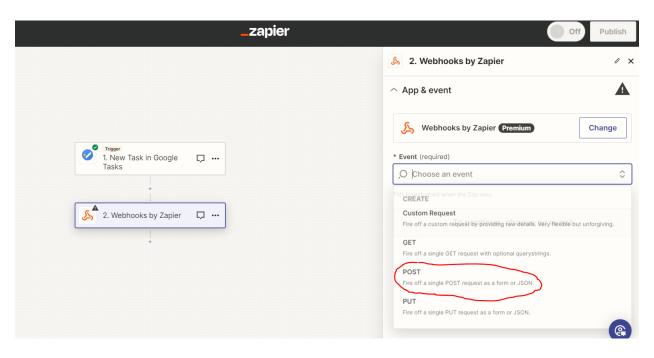
11. Action: Click on action to configure it.



12. Search for webhooks by Zapier and choose it.

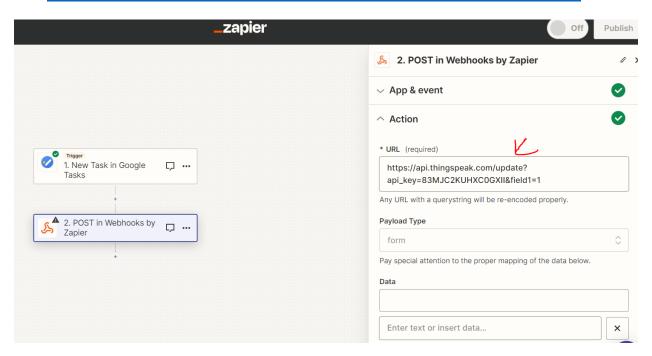


13. Event: Under choose the event select POST and continue

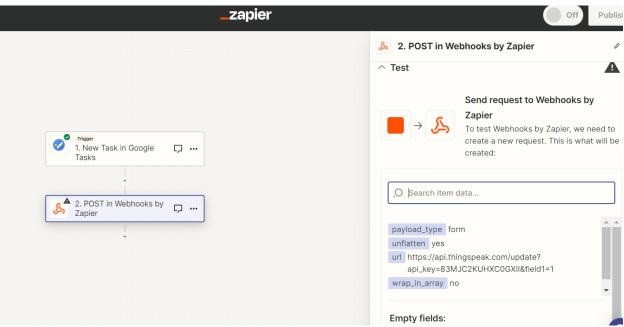


14. Under Action: paste the ON API URL of the Thinspeak and click continue to proceed

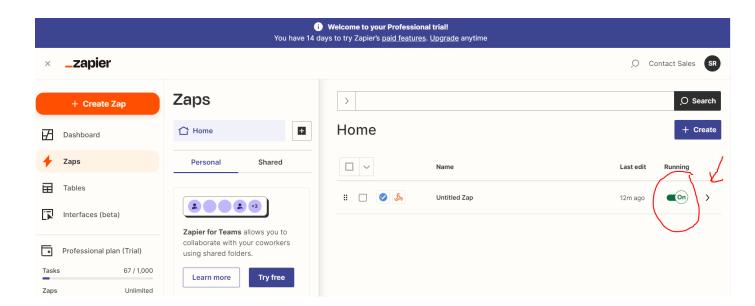
ON: https://api.thingspeak.com/update?api key=83MJC2KXXXX0GXII&field1=1



15. Test: Click on test step to configure action



16. Open the main dashboard in the zapier and turn ON the created ZAP



Step 4: Running the task

- Open google Tasks app in your mobile and under the created Tasks (Home) click on + sign to create new task.
- 2. When the new task is created the bulb glows in the Thinkspeak.

OUTPUT:

Home Auto

Channel ID: **2032199** Author: mwa0000024881606

Access: Private



Channel Stats

Created: 23 days ago

Last entry: less than a minute ago

Entries: 3



