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Experiment Number

Name ::	Rishabh Anand	UID ::	19BCS4525
Branch ::	CSE - IoT	Sec/Grp ::	1/A
Semester ::	5th	Date ::	19th Sept, 2021
Subject ::	DIOT Lab	CODE ::	CSD-337

1. Aim :

To Create Cloud IOT based Telemetric Channel over thingspeak cloud and use the interface to Receive on Remote system using LabVIEW.
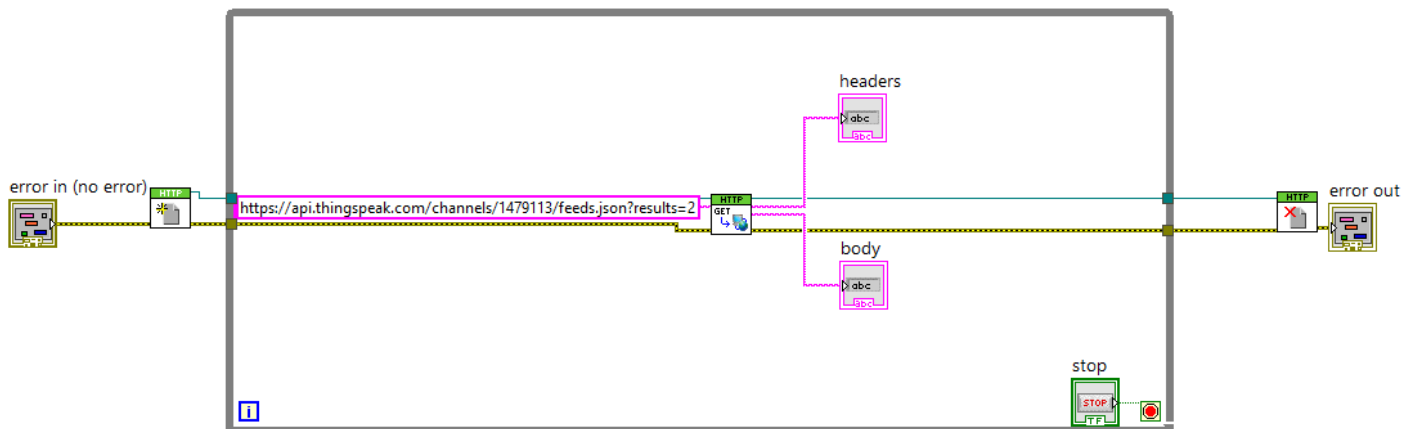
2. Task :

1. Create thingspeak account

2. Create a telemetric channel in thingspeak

3. Make channel created in step 2 as public

4. Write LabVIEW code for cloud interfacing

5. Run labview code

6. Examine the data from step 5 on LabVIEW interface created in step 2

3. Steps :

- On block panel first we have to create a while loop.

- Select the data communication and then protocol-HTTP open handle, HTTP get handle and HTTP close handle

- Create the connection as shown above in the diagram.

- Run the program and on the front panel result is shown.

- On header part URL credential is seen and on body part data is seen.

4. Source Flow :

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5. Observations :

error out

status   code

✔   d0

source

headers

HTTP/1.1 200 OK
Date: Sun, 12 Sep 2021 11:07:04 GMT
Content-Type: application/json; charset=utf-8
Transfer-Encoding: chunked
Connection: keep-alive
Status: 200 OK
X-Frame-Options: SAMEORIGIN
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: GET, POST, PUT, OPTIONS, DELETE, PATCH
Access-Control-Allow-Headers: origin, content-type, X-Requested-With
Access-Control-Max-Age: 1800
Cache-Control: max-age=7, private
ETag: W/"716de8185c9331b369570645f0e899ae"
X-Request-Id: 4898f6bb-7086-4684-8419-98976018fc2e

body

{"channel":{"id":1479113,"name":"FireDetectInForestArea","description":"Fire in forest area is major concern these days","latitude":"30.6917665193","longitude":"76.7946597313","field1":"Tempearture", "created_at":"2021-08-18T06:12:03Z","updated_at":"2021-09-10T16:20:19Z","last_entry_id":null},"feeds":[]}

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Learning Outcomes :

- Channel creation on ThingSpeak.

- Analyzing Lab View and perform simple operation.

- Retrieval of data on the cloud.

- Various HTTP, data communication and blocks in LabView.

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			