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Class: SE (A)

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Subject: IOTL

Lab Practical 13

Problem Statement:

Study of ThingSpeak – an API and Web Service for the Internet of Things (Mini Project: Same can be done parallel with PBL).

//Code:

```
import requests
import time
import random
```

OUTPUT:

```
X
                                   Zoom
                                                                                                                Quit
                                                                                                                          Support
  New
             Load
                                             Debug
                                                                                          Stop
import requests
import time
      import random
      channel_id = 394744 # PUT CHANNEL ID HERE
write_key = 'AA0G612RJT5LW21R' # PUT YOUR WRITE KEY HERE
read_key = 'TSPKJB230K65QPJQ' # PUT YOUR READ KEY HERE
      if __name__ == "__main__":
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           while True:
   val = random.randint(0,99)
                URL = 'http://api.thingspeak.com/update?api_key=%s&field1=%s' %(write_key,val)
                #print(dru)
#print(resp.json())
# free account has an api limit of 15sec
                time.sleep(30)
>>> %Run write.pv
Python 3.11.2 (/usr/bin/python3)
```

Code:

import requests

```
import json
import time

Key = 'TSPKJB230K65QPJQ'
channel = 394744

while True:
    try:
        #URL = 'http://api.thingspeak.com/channels/%s/feeds/last.json?' %(channel)
        URL = 'http://api.thingspeak.com/channels/%s/field/1' %(channel)
        #print(URL)
        resp = requests.get(url=URL)
        #print(resp)
        resp = resp.json()['feeds'][-1]['field1']
```

except KeyboardInterrupt:

print(resp)
time.sleep(0.3)

exit()

OUTPUT:

