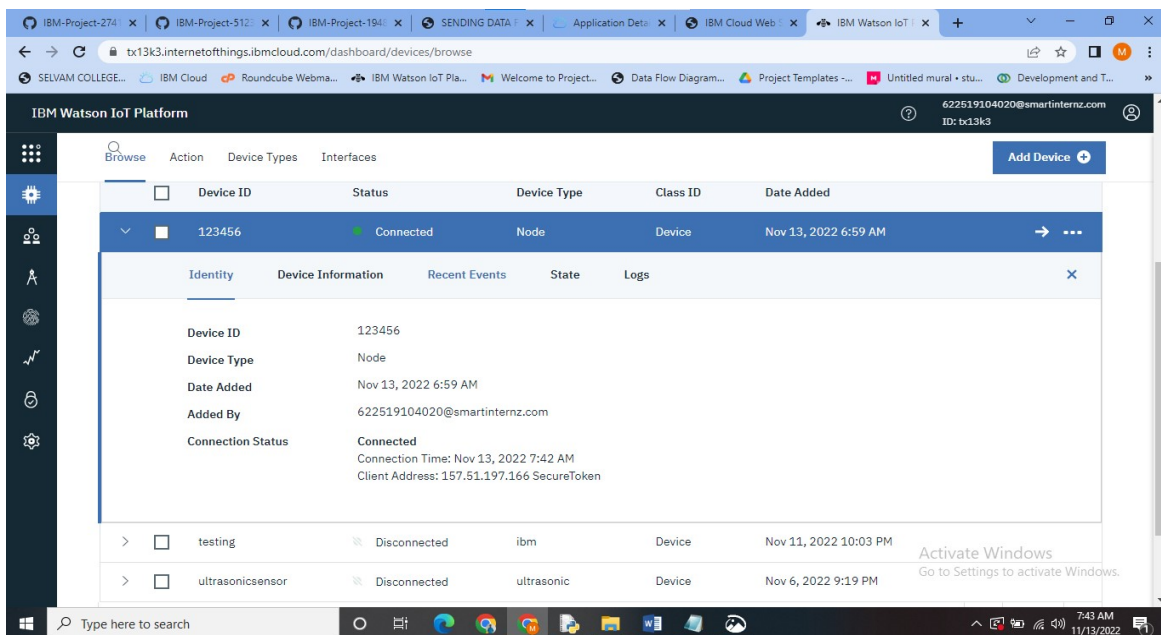
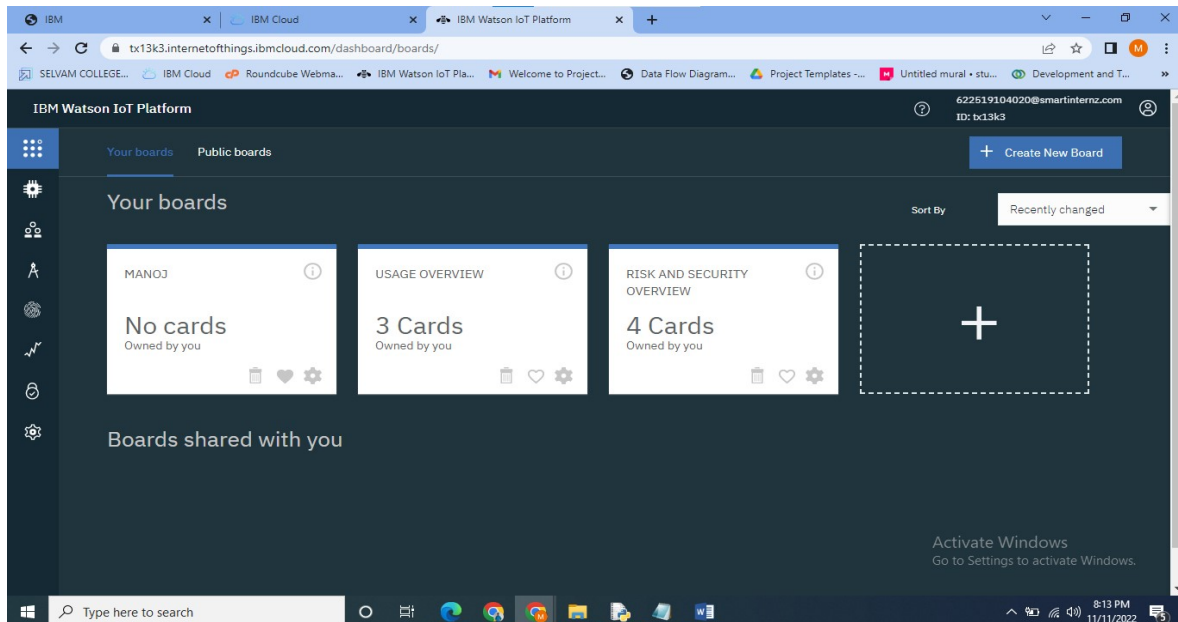


Publish Data To The IBM Cloud

Publish Data to the IBM cloud

Date	12 September 2022
Team ID	PNT2022TMID41909
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

Signs with Smart Connectivity for Better Road Safety



Python Code:

```
#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {
    "identity": {
        "orgId": "tx13k3",
        "typeId": "Node",
        "deviceId": "123456"
    },
    "auth": {
        "token": "tC*d-RqI_v2-pEBj8U"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
```

```
print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```

Output:

```
*Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (tags/v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\MONISH\AppData\Local\Programs\Python\Python36-32\code\wt.py
2022-11-13 07:42:31,353 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: dtx13k3:Node:123456Published data Successfully: %s
{'temperature': 1, 'humidity': 24}
Published data Successfully: %s {'temperature': -11, 'humidity': 99}
Published data Successfully: %s {'temperature': 55, 'humidity': 69}
Published data Successfully: %s {'temperature': 90, 'humidity': 60}
Published data Successfully: %s {'temperature': 76, 'humidity': 46}
Published data Successfully: %s {'temperature': 117, 'humidity': 27}
Published data Successfully: %s {'temperature': 112, 'humidity': 29}
Published data Successfully: %s {'temperature': -18, 'humidity': 57}
Published data Successfully: %s {'temperature': 99, 'humidity': 12}
Published data Successfully: %s {'temperature': 122, 'humidity': 96}
Published data Successfully: %s {'temperature': 77, 'humidity': 61}
Published data Successfully: %s {'temperature': -19, 'humidity': 37}
Published data Successfully: %s {'temperature': -16, 'humidity': 10}
Published data Successfully: %s {'temperature': 59, 'humidity': 39}
Published data Successfully: %s {'temperature': 54, 'humidity': 67}
Published data Successfully: %s {'temperature': 111, 'humidity': 50}
Published data Successfully: %s {'temperature': 63, 'humidity': 66}
Published data Successfully: %s {'temperature': 120, 'humidity': 70}
Published data Successfully: %s {'temperature': 109, 'humidity': 96}
Published data Successfully: %s {'temperature': 61, 'humidity': 3}
Published data Successfully: %s {'temperature': -2, 'humidity': 22}
Published data Successfully: %s {'temperature': 107, 'humidity': 2}
Published data Successfully: %s {'temperature': 33, 'humidity': 89}
Published data Successfully: %s {'temperature': 0, 'humidity': 21}
Published data Successfully: %s {'temperature': 95, 'humidity': 10}
Published data Successfully: %s {'temperature': 92, 'humidity': 15}
Published data Successfully: %s {'temperature': 49, 'humidity': 50}
Published data Successfully: %s {'temperature': 51, 'humidity': 64}
Published data Successfully: %s {'temperature': 110, 'humidity': 11}
Published data Successfully: %s {'temperature': 102, 'humidity': 7}
Published data Successfully: %s {'temperature': 104, 'humidity': 13}
|

Activate Windows
Go to Settings to activate Windows.
Ln: 37 Col: 0
```

IBM Watson IoT Platform

622519104020@smartinternz.com
ID: tx13k3

Browse Action Device Types Interfaces

123456 Connected Node Device Nov 13, 2022 6:59 AM

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"temperature":73,"humidity":31}	json	a few seconds ago
status	{"temperature":9,"humidity":66}	json	a few seconds ago
status	{"temperature":55,"humidity":55}	json	a few seconds ago
status	{"temperature":28,"humidity":25}	json	a few seconds ago
status	{"temperature":29,"humidity":51}	json	a few seconds ago

Activate Windows
Go to Settings to activate Windows.

IBM Watson IoT Platform

622519104020@smartinternz.com
ID: tx13k3

Browse Action Device Types Interfaces

123456 Connected Node Device Nov 13, 2022 6:59 AM

Identity Device Information Recent Events State Logs

Showing Raw Data | No Interfaces Available

Property	Value	Type	Event	Last Received
temperature	78	Number	status	a few seconds ago
humidity	34	Number	status	a few seconds ago

>	<input type="checkbox"/>	testing	Disconnected	ibm	Device	Nov 11, 2022 10:03 PM
>	<input type="checkbox"/>	ultrasonicsensor	Disconnected	ultrasonic	Device	Nov 6, 2022 9:19 PM

Items per page 50 | 1-3 of 3 items

1 of 1 page

Activate Windows
Go to Settings to activate Windows.