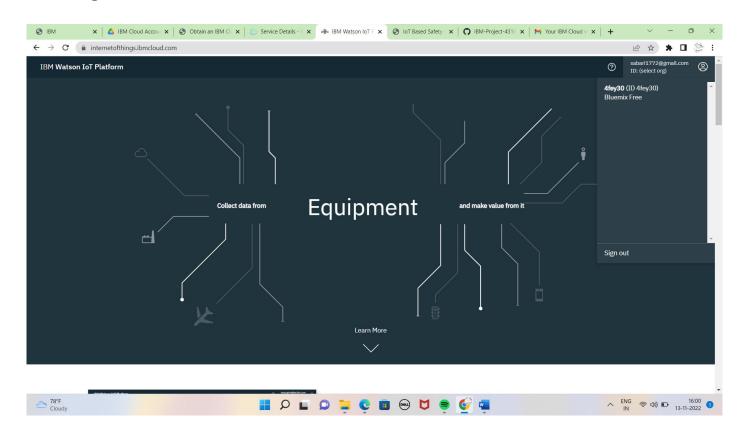
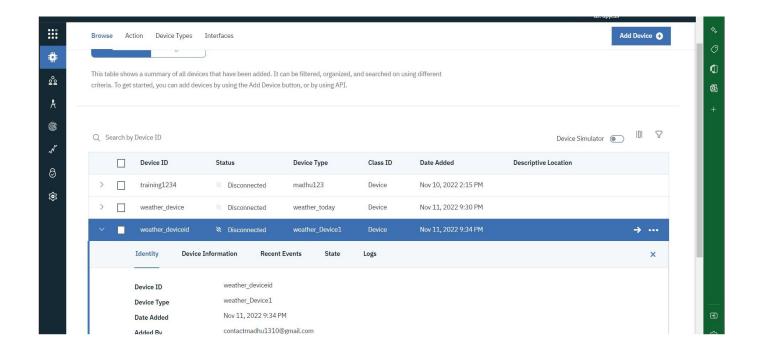
### **DELIVERY OF SPRINT 2**

<u>Team ID</u>	PNT2002TMID10533
Project Name Project	IOT Based Safety Gadget for Child Safety  Monitoring&Notification

# **Creating IBM Cloud Service and IBM WATSON IOT PLATFORM:**





## **Creating and Connecting IBM cloud for Project and Python Code**

```
import time import sys
```

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "Opycss" deviceType =

"weather\_Device1" deviceId =

"weather\_deviceid" authMethod = "token"

authToken = "(j!jK\*nvh9OKQD9!dJ"

#api key {a-illza1-mbdxqo6z0s} #api

token {zSYzISuAWF&F\_x7GkT}

```
try:
deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":
authMethod, "auth-token": authToken} deviceCli =
ibmiotf.device.Client(deviceOptions)
#.....
except Exception as e:
print("Caught exception connecting device: %s" % str(e))
sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of
type
print("POWER ON ") print("CHECKING CONNECTION
TO IBM WATSON...")
time.sleep(2) deviceCli.connect() print("dear user ... welcome to
IBM-IOT ") print("You can know your child's live location and
temperature ") name=str(input("enter your child name:")) while
True:
```

temperature=random.randint(20,50)#random temperature for your child latitude=random.uniform(10.781377,10.78643)#random latitude for your child longitude=random.uniform(79.129113,79.134014)#random longitude for your child a="Child inside the geofence" b="Child outside the geofence" c="High temperature" d="Low temperature" x={'your\_child\_Zone':a} y={'your\_child\_Zone':b} z={'temp\_condition':c} w={'temp\_condition':d}

```
data = { 'temp' : temperature, 'lat': latitude, 'lon':longitude, 'name':name }
#print data def
myOnPublishCallback():
 print ("Published Temperature = %s C" % temperature, "latitude = %s %%" % latitude,
"longitude = %s %%" % longitude, "to IBM Watson")
 print("\n")
success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data, qos=0,
on_publish=myOnPublishCallback)
if latitude>=10.78200 and latitude<=10.786000 and longitude >=79.130000 and
longitude <=79.133000:
deviceCli.publishEvent("IoTSensorgpsdata", "json", data=x, qos=0, on_publish=myOnPublis
hCallback)
 print(x)
print("\n") else:
deviceCli.publishEvent("IoTSensorgpsdata", "json", data=y, qos=0, on_publish=myOnPublis
hCallback)
 print(y)
print("\n")
if (temperature>35):
```

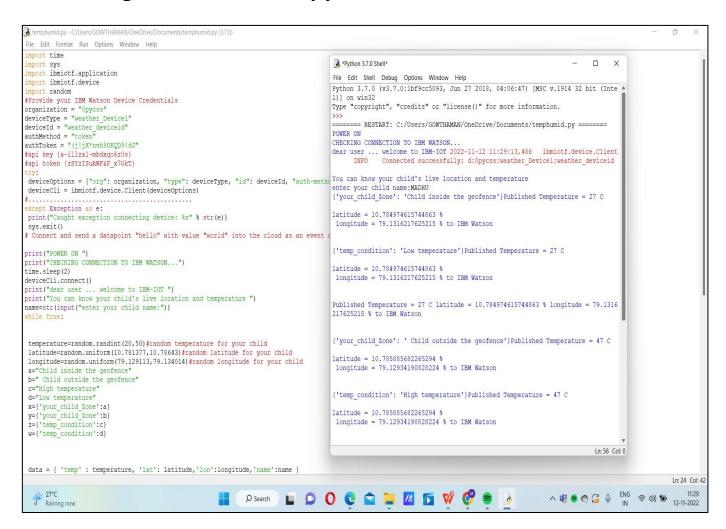
```
deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publish=myOnPublis
hCallback)
    print(z)

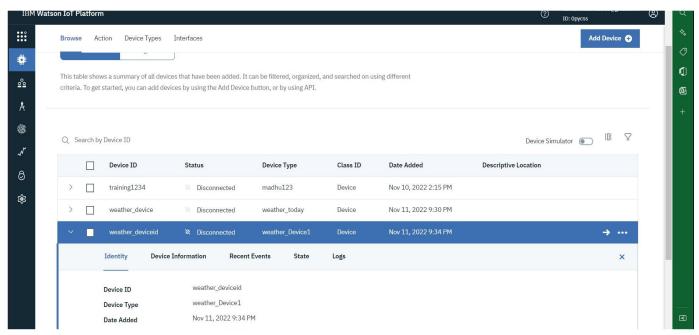
print("\n") else:

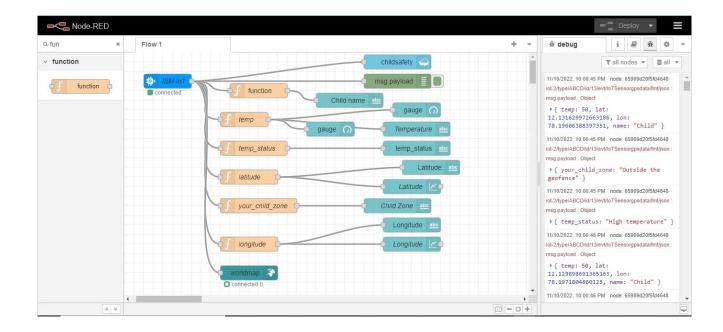
deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publish=myOnPublis
hCallback)
    print(w)

print("\n") if not
success:
print("Not connected
to IoTF")
print("\n")
time.sleep(3)
# Disconnect the device and application from the cloud deviceCli.disconnect()
```

# **Connecting IBM Watson and python Code:**







#### NODE-RED OUPUT:

