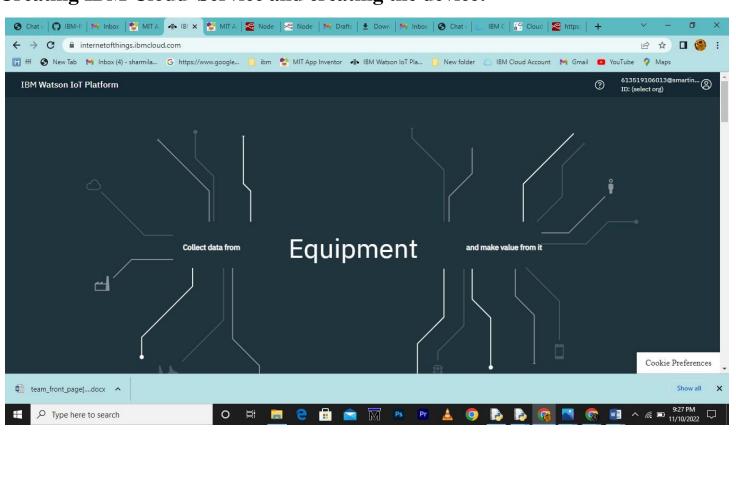
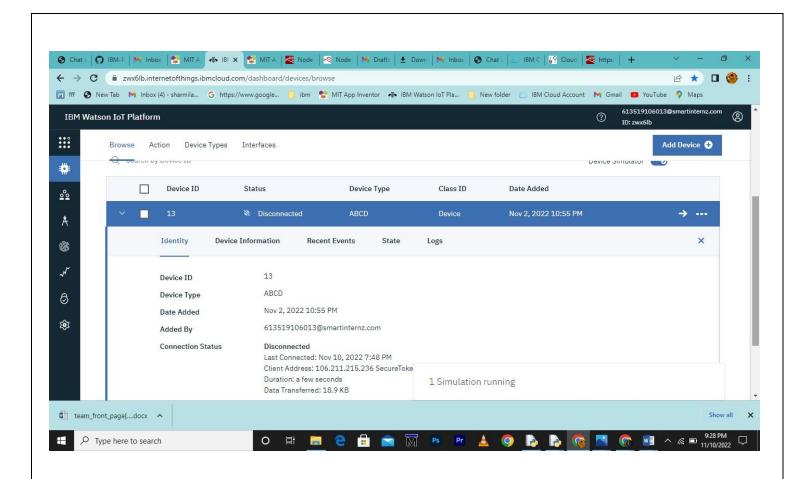
## Project Development –Delivery of Sprint 1 Creating and Connecting IBM cloud for Project and Python Code

TITLE	IOT based child safety gadget for child safetymonitoring and notification
TEAM ID	PNT2022TMID44407

## **Creating IBM Cloud Service and creating the device:**





## **Creating Python Code:**

import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "zwx6lb"

deviceType = "ABCD"

deviceId = "13"

authMethod = "token"

authToken = "12345678"

#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
"greeting" 10 times
print("power on ")
 print("checking connection to waston iot...")
 time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")print()
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 childa="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=myOnPublishCallb
 ack)
       print(x)
       print("\n")
     else:
deviceCli.publishEvent("IoTSensorgpsdata", "json", data=y, qos=0, on_publish=myOnPublishCallb
 ack)
       print(y)
       print("\n")
```

```
if (temperature>35):
deviceCli.publishEvent("IoTSensorgpsdata", "json", data=z, qos=0, on\_publish=myOnPublishCallb", and the control of the contr
ack)
                                                                              print(c)
                                                                              print("\n")
                                       else:
deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on\_publish=myOnPublishCall\\
back)
                                                                              print(d)
```

```
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:**

