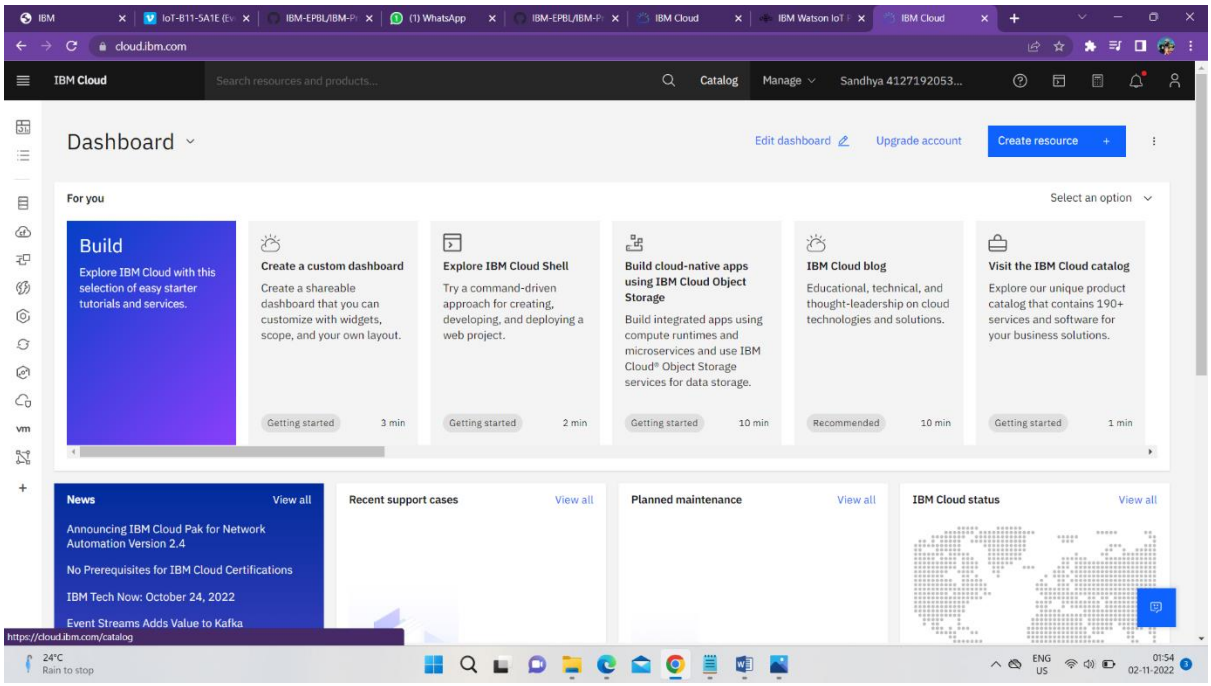
Project Development Phase

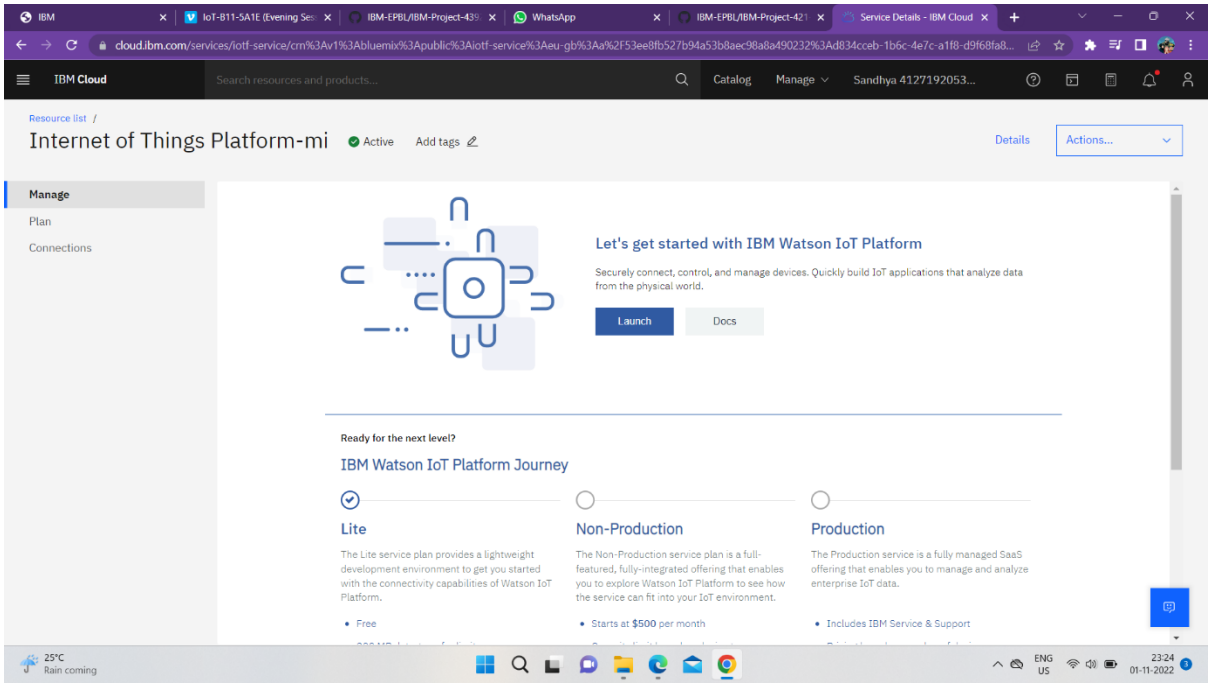
SPRINT-2

Date	17 November 2022
Team ID	PNT2022TMID38406
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

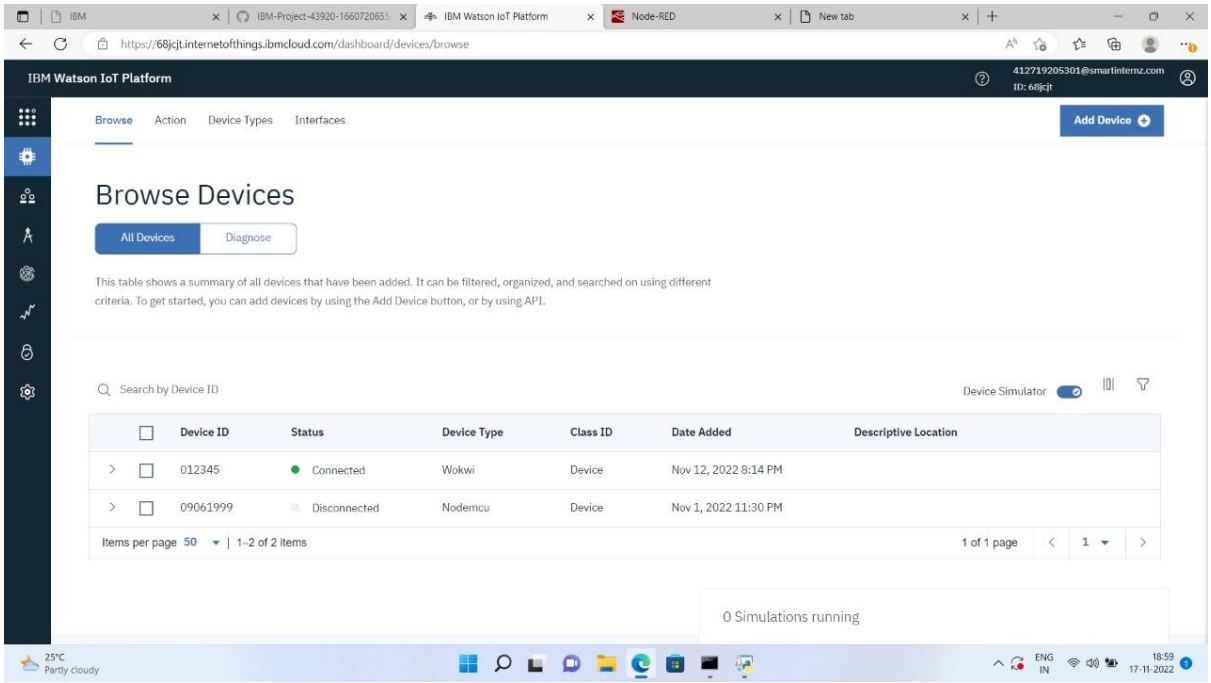
1. DASHBOARD



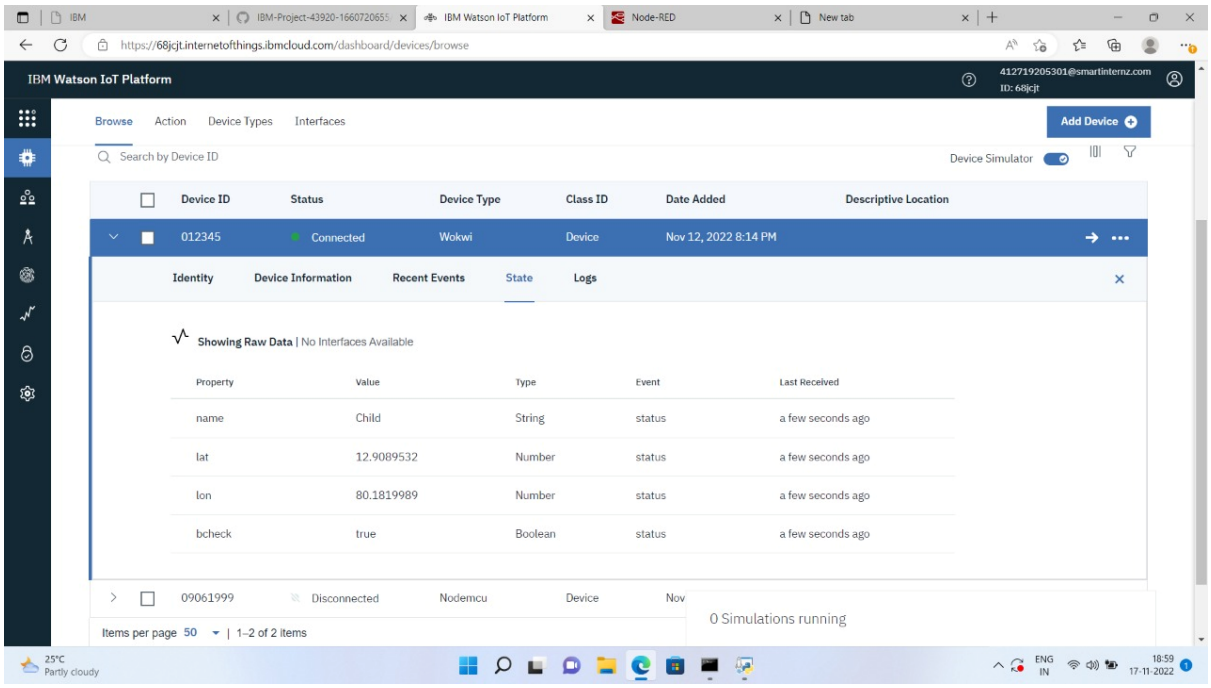
2. IBM WATSON IOT PLATFORM



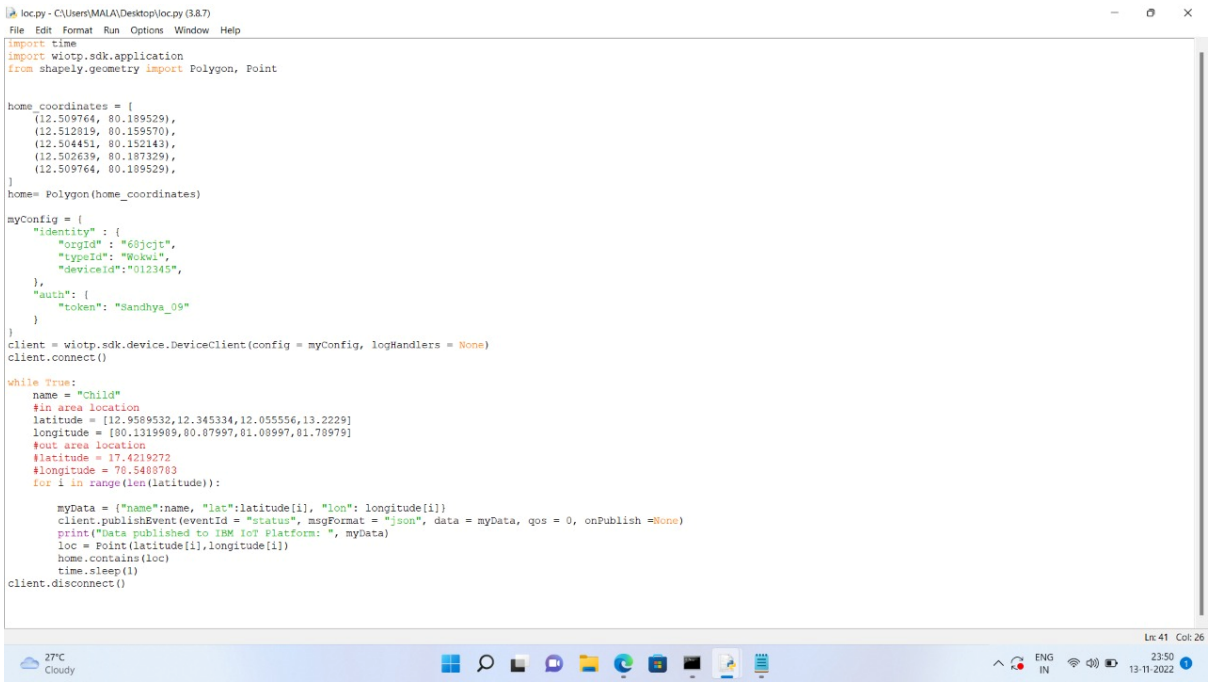
3. BROWSE DEVICES AND CONNECT



4. SHOWING RAW DATA OF A DEVICE

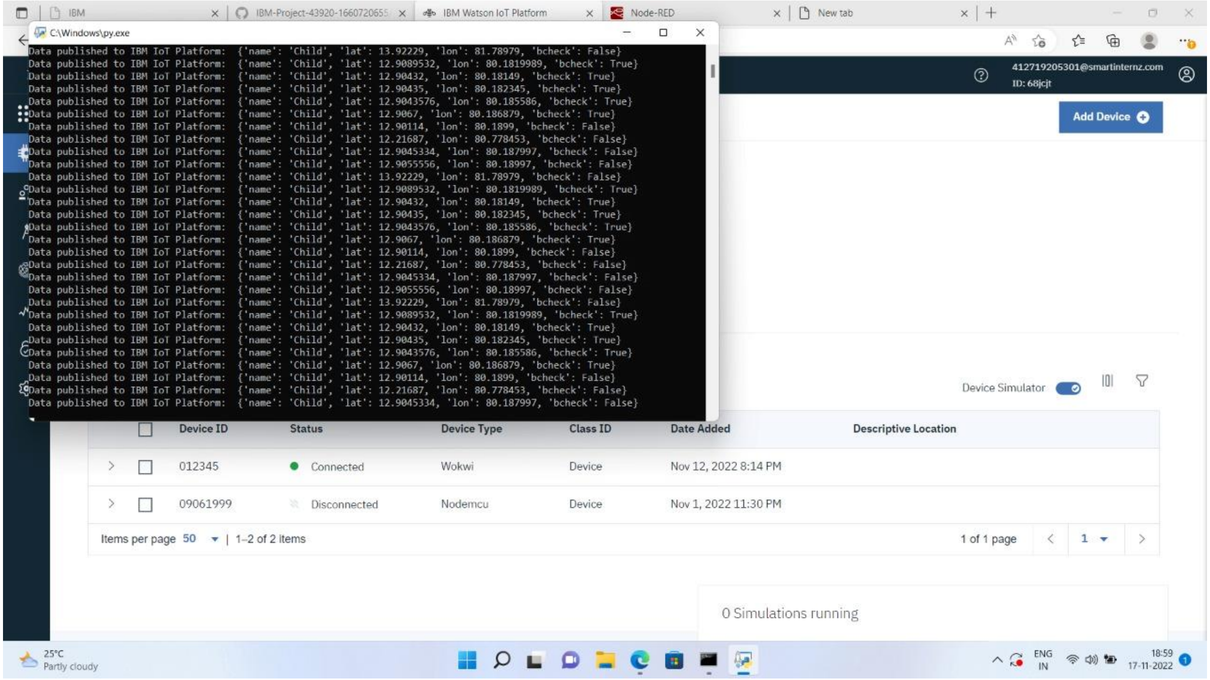


5. CODE FOR TRACKING LOCATION

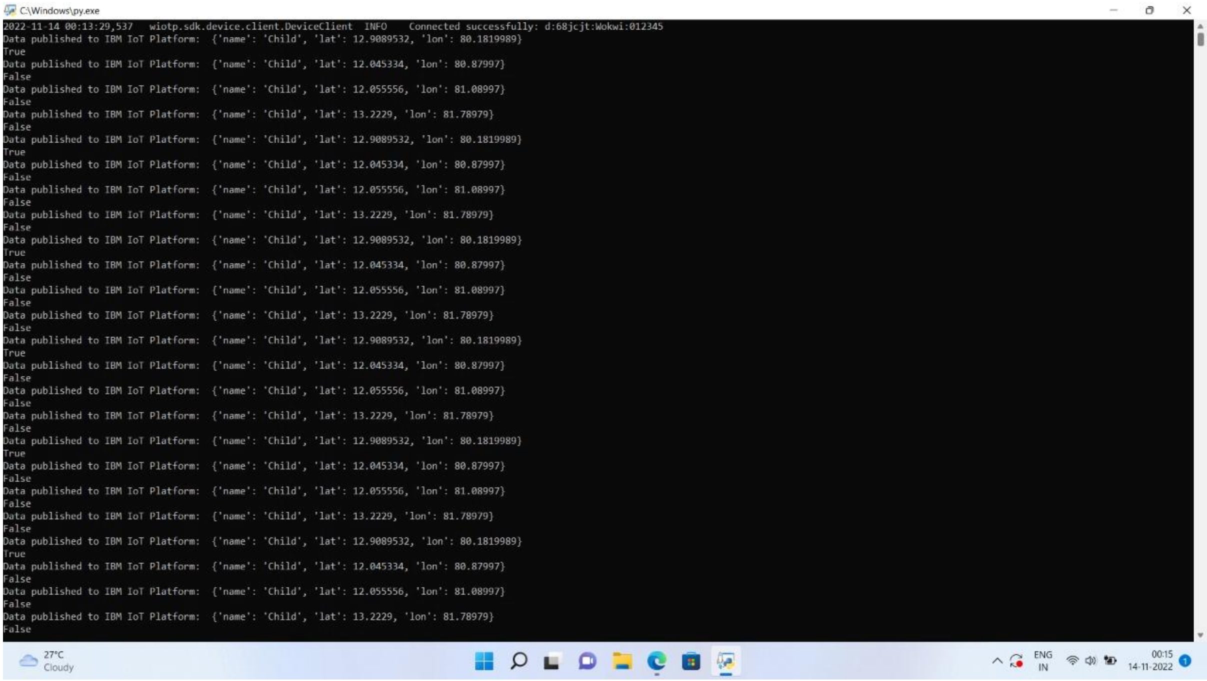


```
import time
import wiotp.sdk.application
from shapely.geometry import Polygon, Point


home_coordinates = [
    (12.509764, 80.189529),
    (12.512819, 80.159570),
    (12.504451, 80.152143),
    (12.502639, 80.187329),
    (12.509764, 80.189529),
]
home= Polygon(home_coordinates)

myConfig = {
    "identity" : {
        "orgId" : "68jcjt",
        "typeId": "Wokwi",
        "deviceId":"012345",
    },
    "auth": {
        "token": "Sandhya_09"
    }
}
client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
client.connect()

while True:
    name = "Child"
    #in area location
    latitude = [12.9589532,12.345334,12.055556,13.2229]
    longitude = [80.1319989,80.87997,81.08997,81.78979]
    #out area location
    #latitude = 17.4219272
    #longitude = 78.5488703
    for i in range(len(latitude)):

        myData = {"name":name, "lat":latitude[i], "lon": longitude[i]}
        client.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos = 0, onPublish =None)
        print("Data published to IBM IoT Platform: ", myData)
        loc = Point(latitude[i],longitude[i])
        home.contains(loc)
        time.sleep(1)
client.disconnect()
```

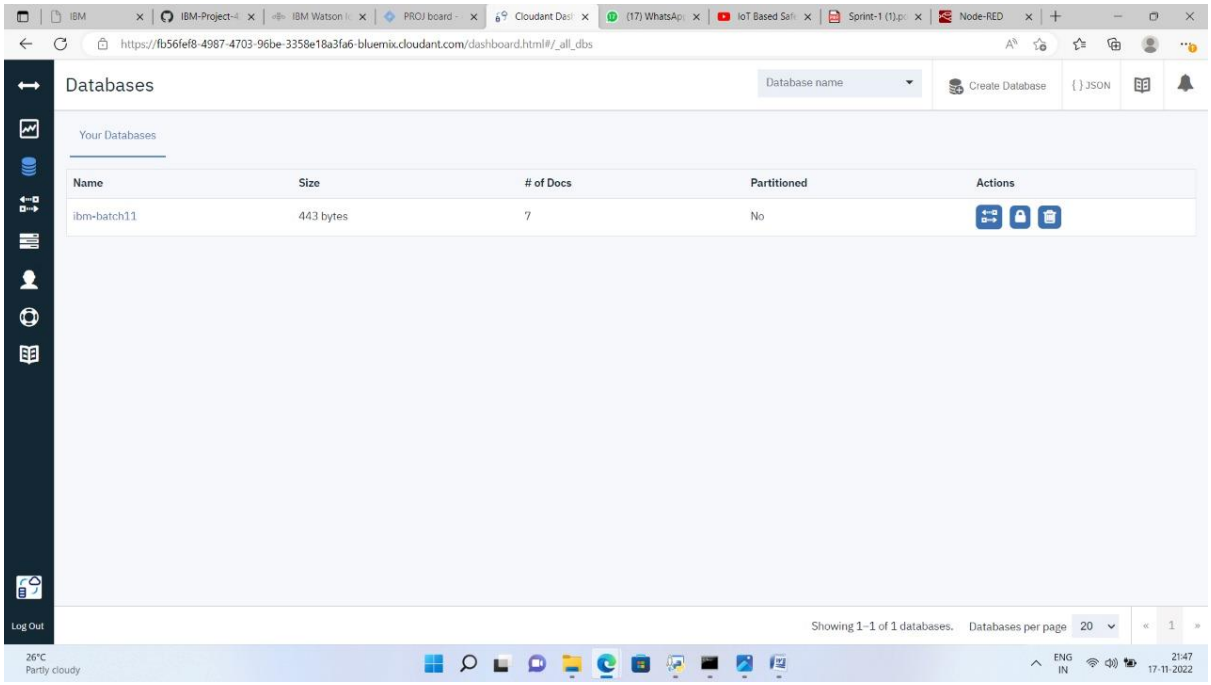
6. OUTPUT FOR TRACKING LOCATION CODE



7. LOCATION OF A CHILD



8. DATABASES


Databases
Database name
Create Database
{ } JSON
Your Databases
Name
Size
# of Docs
Partitioned
Actions
ibm-batch11
443 bytes
7
No
Log Out
Showing 1–1 of 1 databases.
Databases per page
20
26°C
Partly cloudy
ENG
IN
21:47
17-11-2022