Develop The Web Application Using Node-RED

Team ID	PNT2022TMID04590
Project Name	**Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification**

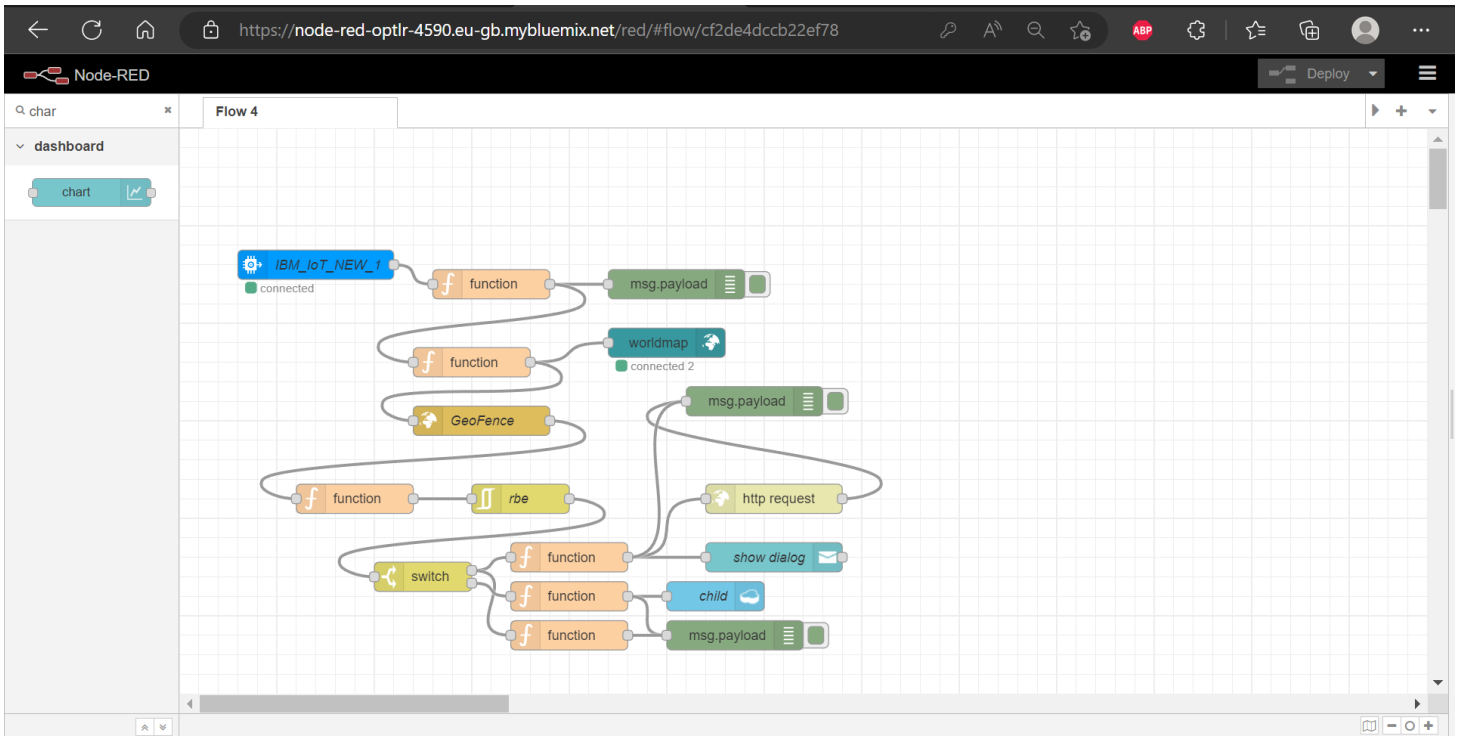
Aim:

Develop the web application using Node-RED

Steps:

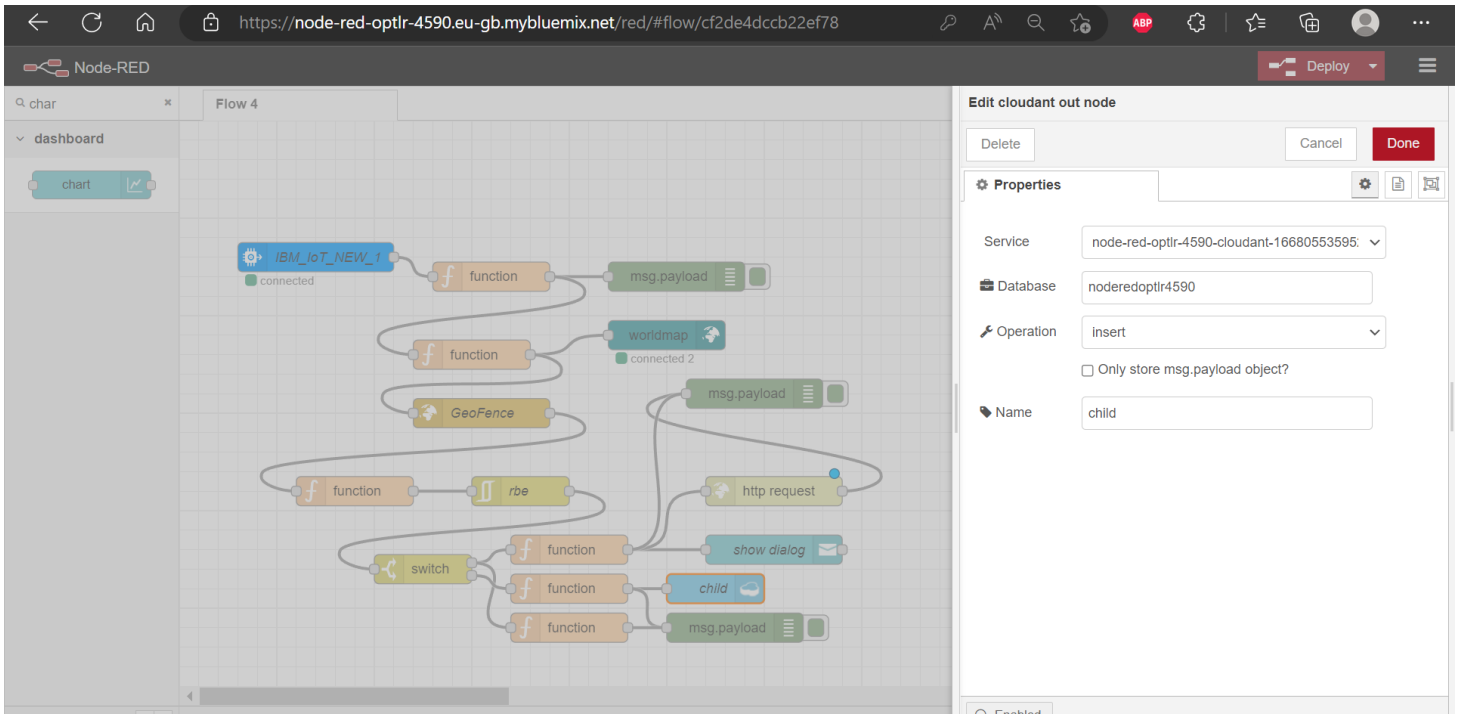
STEP 1:

Create Node Red work flow based on the customer requirement.



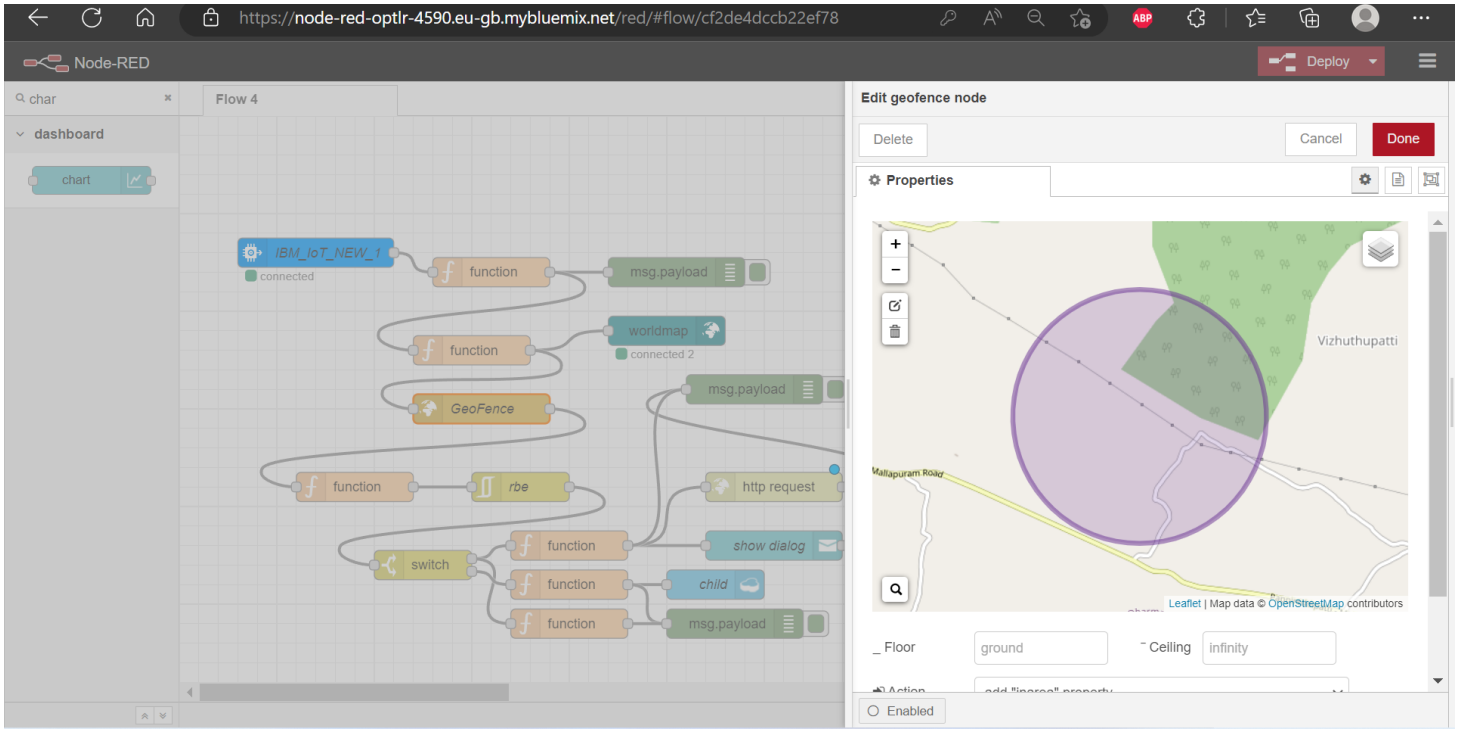
STEP 2:

Details about Cloudant DB Database (connected with Nodered)



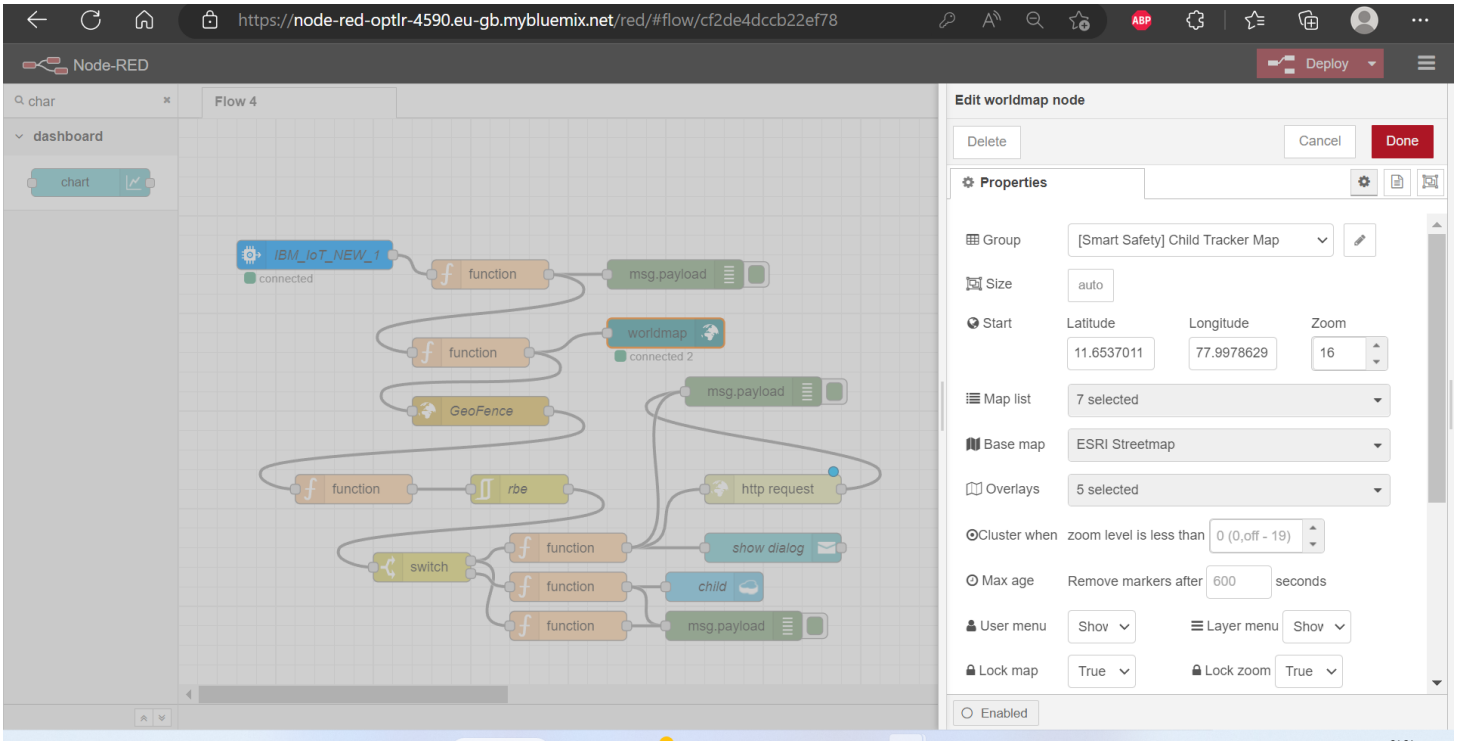
STEP 3:

Geofence area created based on the customer need..



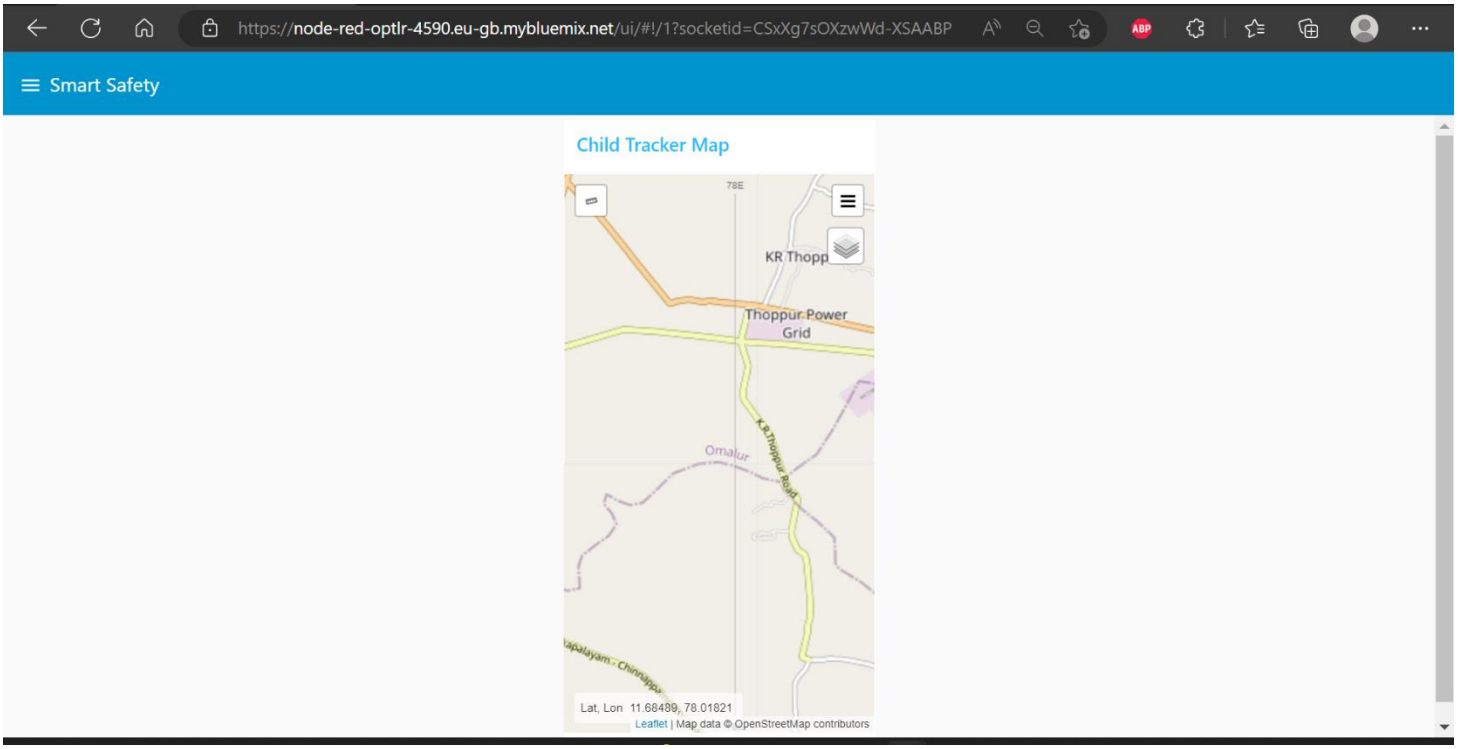
STEP 4:

Details about World map node in our designed workflow.



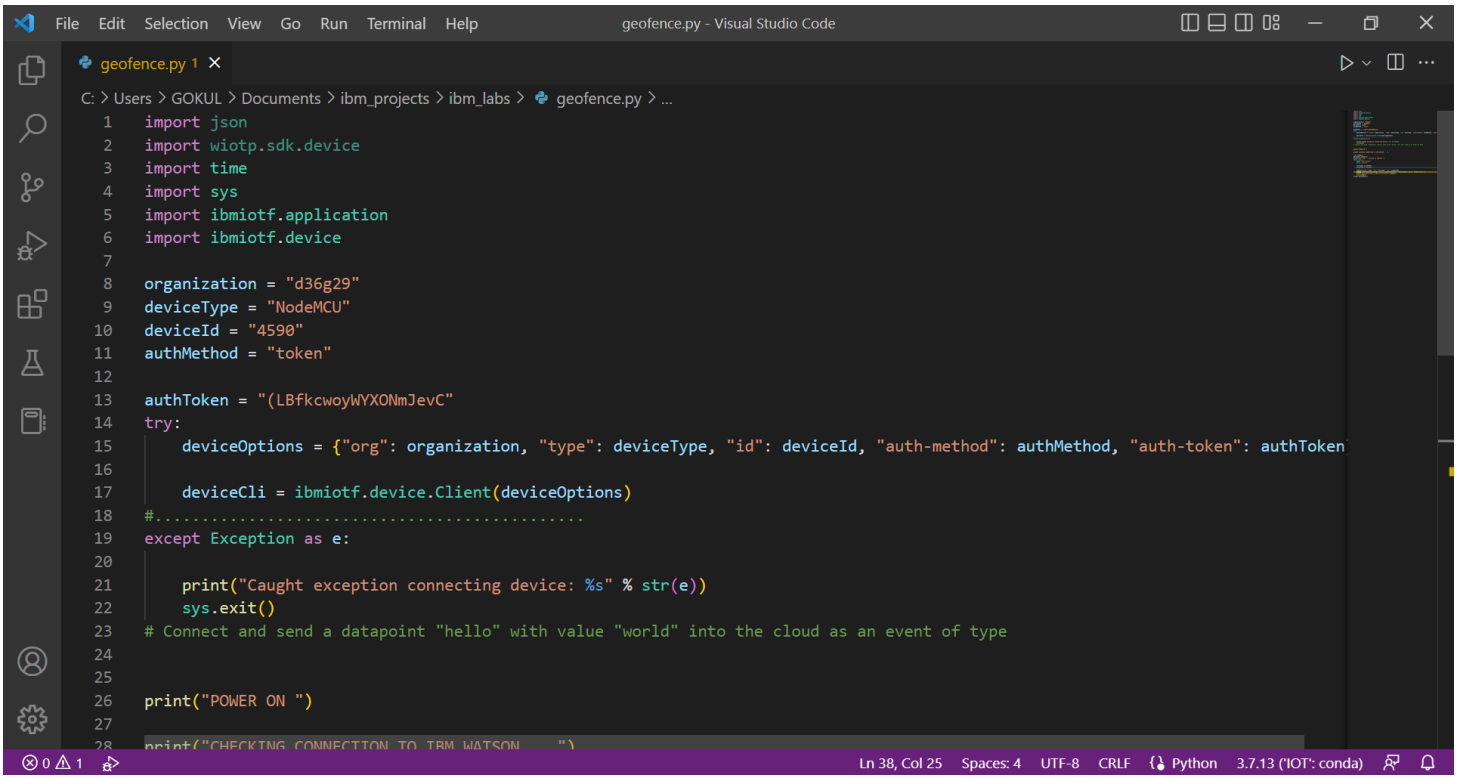
STEP 5:

Node red user interface which shows Child tracker Map.

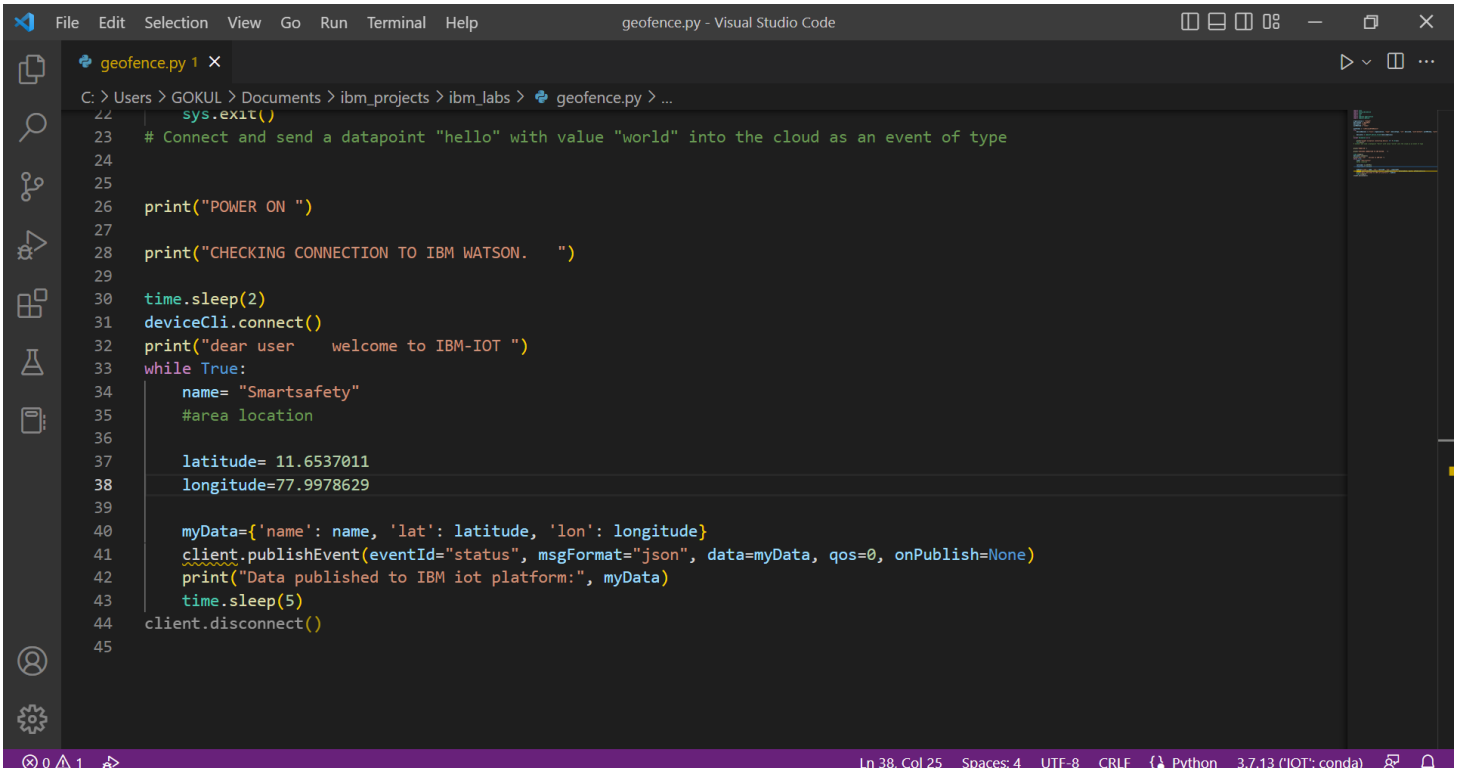


STEP 6:

Coding which has connection, longitude and latitude details..



```
import json
import wiotp.sdk.device
import time
import sys
import ibmiotf.application
import ibmiotf.device

organization = "d36g29"
deviceType = "NodeMCU"
deviceId = "4590"
authMethod = "token"

authToken = "(LBfkcwoyWYXONmJevC"
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 ")
```



```
    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 ")
while True:
    name= "Smartsafety"
    #area location

    latitude= 11.6537011
    longitude=77.9978629

    myData={'name': name, 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM iot platform:", myData)
    time.sleep(5)
client.disconnect()
```

Result:

Successfully developed the web application using Node-RED