Project Development Phase
Project Development Delivery of Sprint 4

Date	13 November 2022
Team ID	PNT2022TMID13499
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

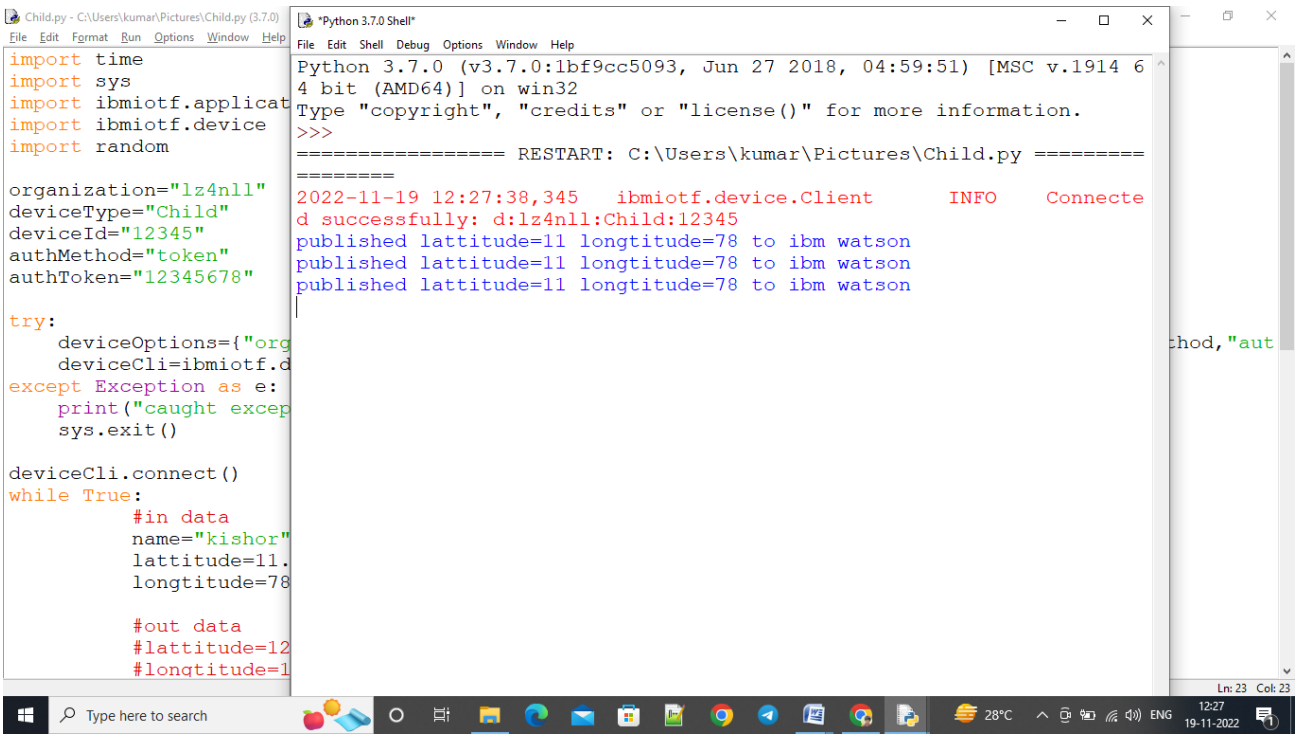
IoT Based Safety Gadget for Child Safety Monitoring and Notification :

Python code for transferring latitude and longitude:

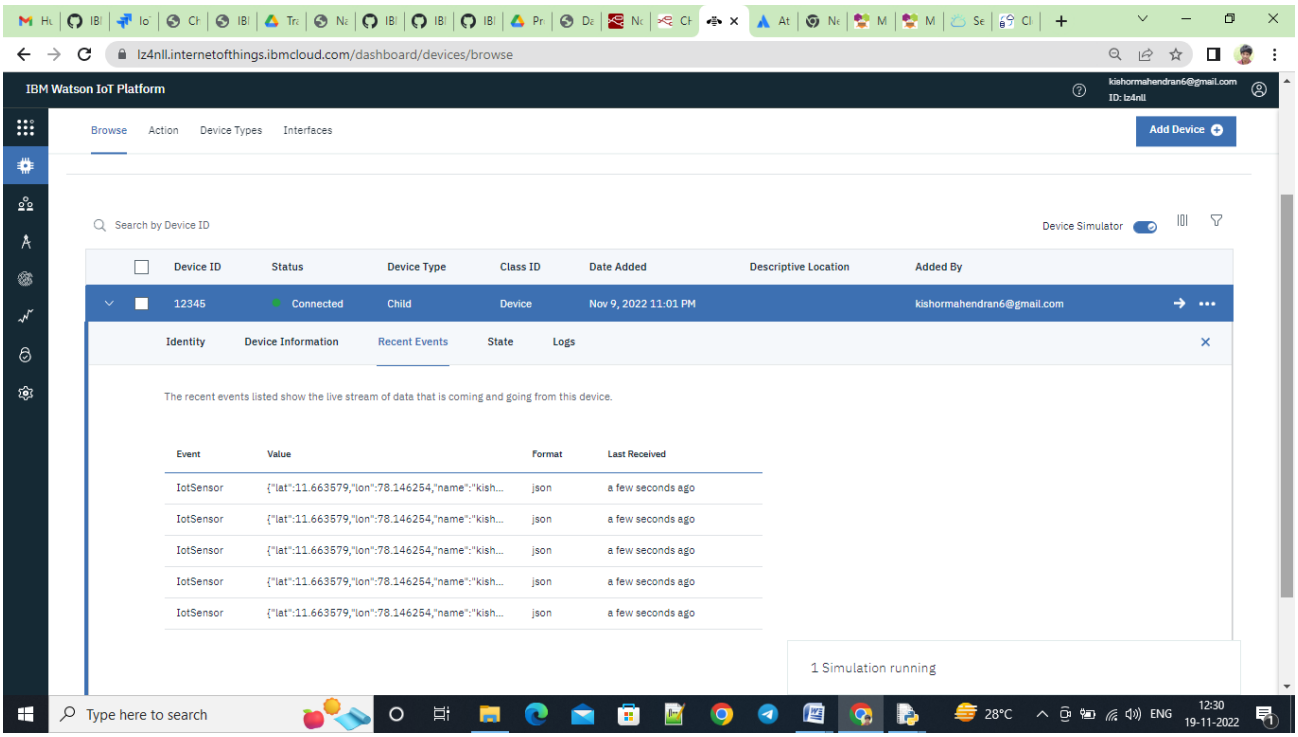
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization="lz4nll"
deviceType="Child"
deviceId="12345"
authMethod="token"
authToken="12345678"
try:
   deviceOptions={"org": organization,"type": deviceType,"id": deviceId,"auth-method": authMethod,"auth-token": authToken}
   deviceCli=ibmiotf.device.Client(deviceOptions)
except Exception as e:
   print("caught exception connecting device:%s" % str(e))
   sys.exit()
deviceCli.connect()
while True:
        #in data
        name="kishor"
        lattitude=11.663579;
        longtitude=78.146254;
```

```
        #out data
        #lattitude=12.7345;
        #longtitude=13.2020;
        data={'lat':lattitude,'lon':longtitude,'name':name}
        def myOnPublishCallback():
print("published lattitude=%d" %lattitude,"longtitude=%d" %longtitude,"to ibm watson")
success=deviceCli.publishEvent("IotSensor","json",data,qos=0,on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(3)
deviceCli.disconnect()
```

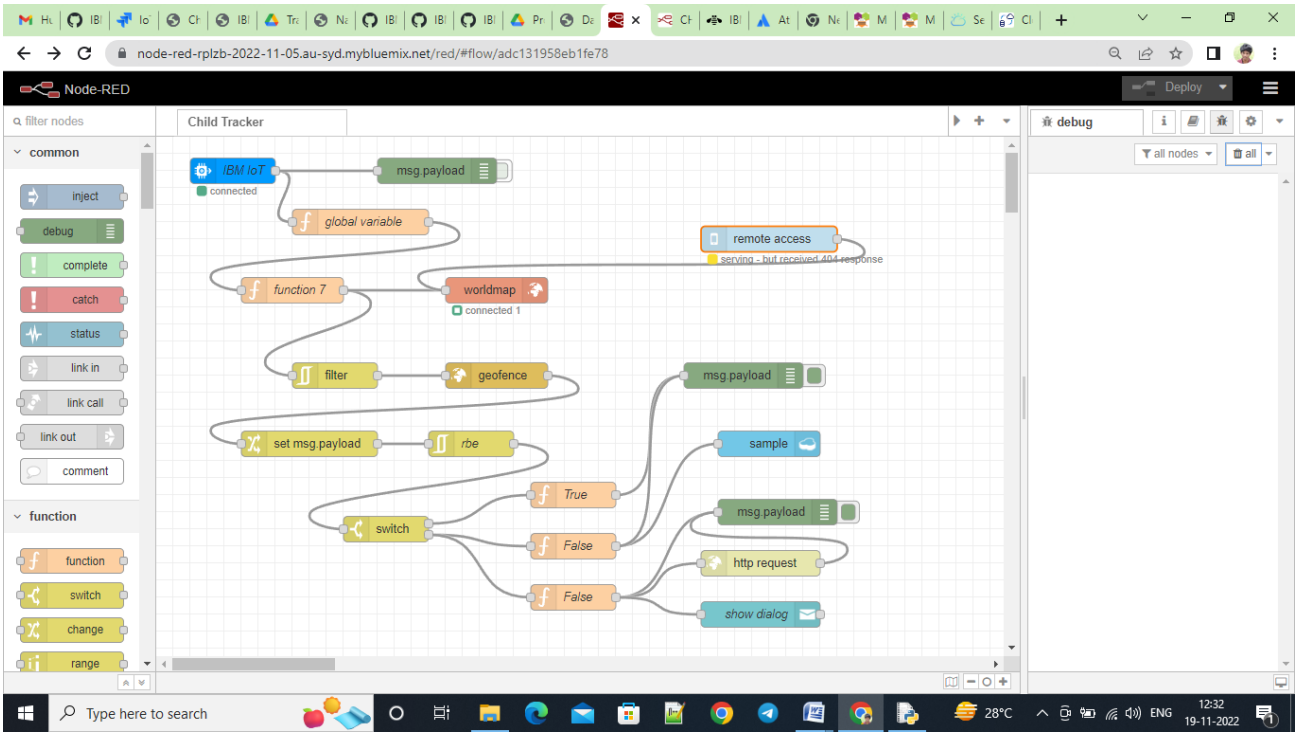
OUTPUT:



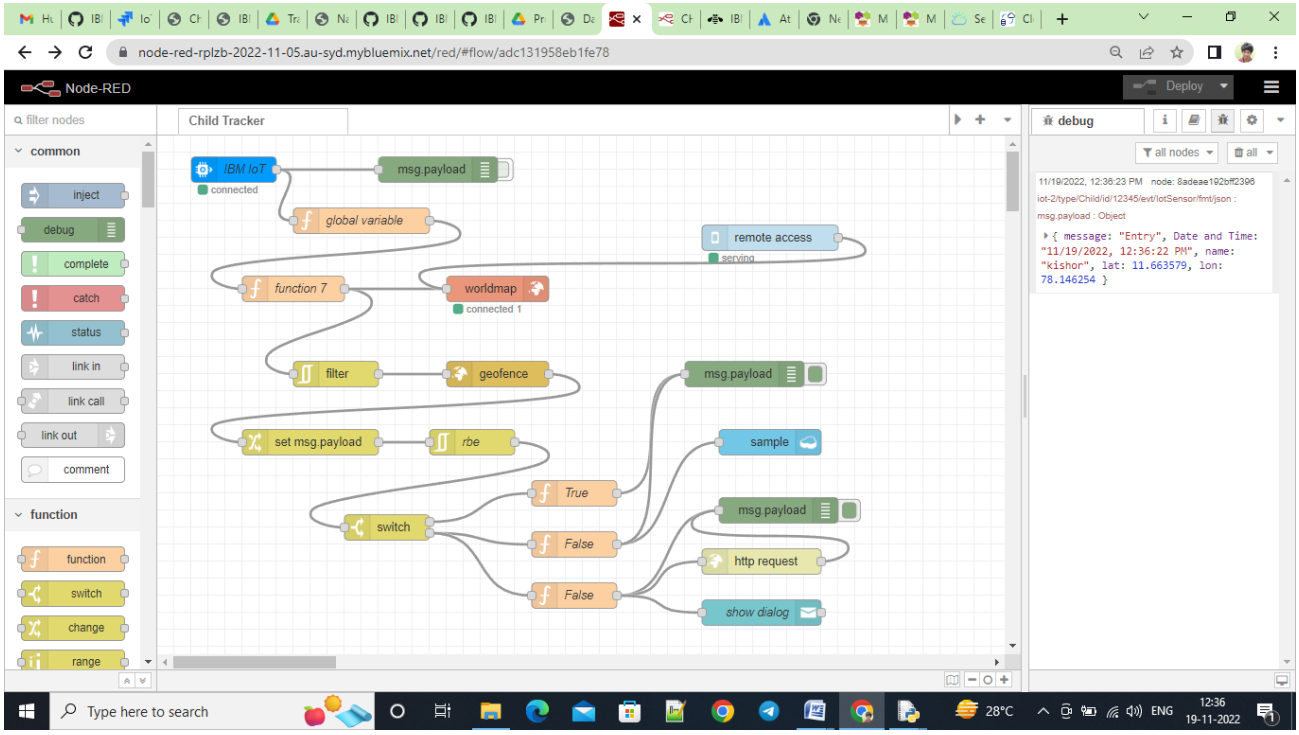
PUBLISHED DATA IN IBM WATSON IOT PLATFORM:



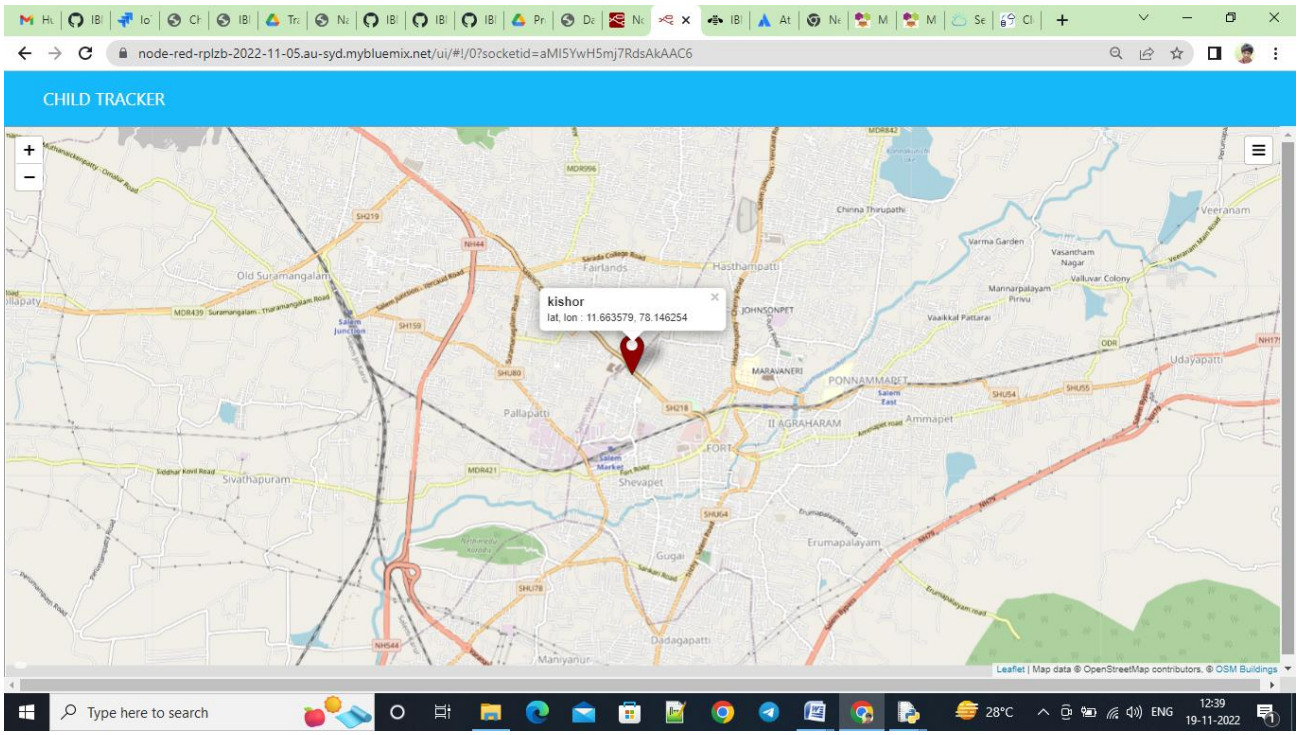
WEB APPLICATION USING NODE-RED:



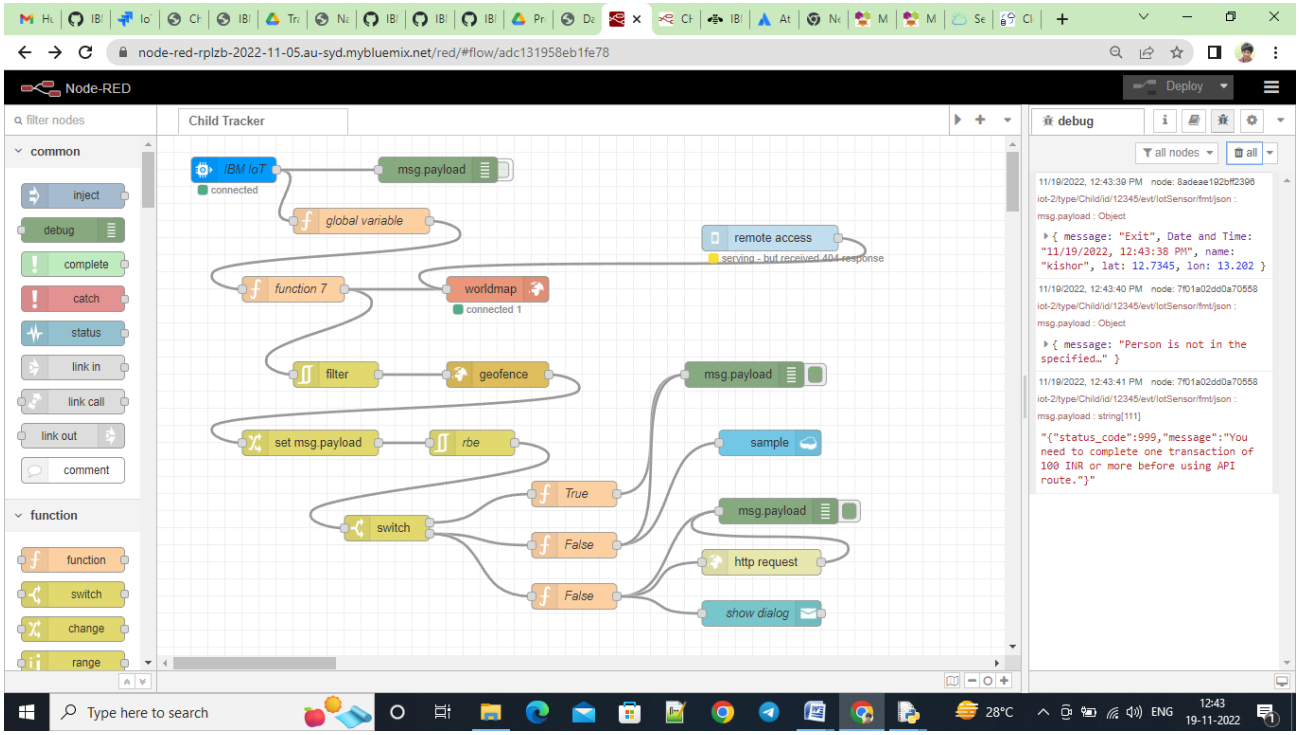
WHEN WE GIVE IN AREA LOCATION:



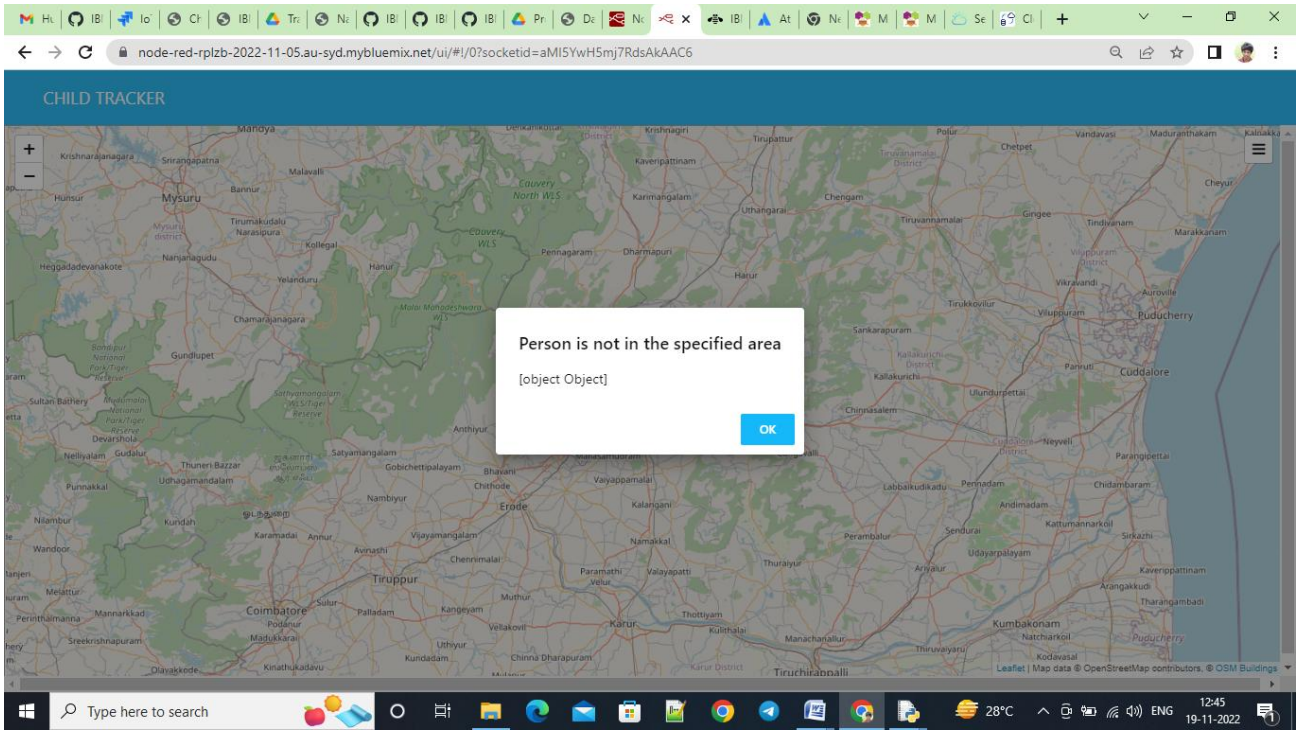
OUTPUT:



WHEN WE GIVE OUT AREA LOCATION:



OUTPUT :



STORED DATA IN THE DATABASE WE HAVE CREATED: