

Project Development Phase

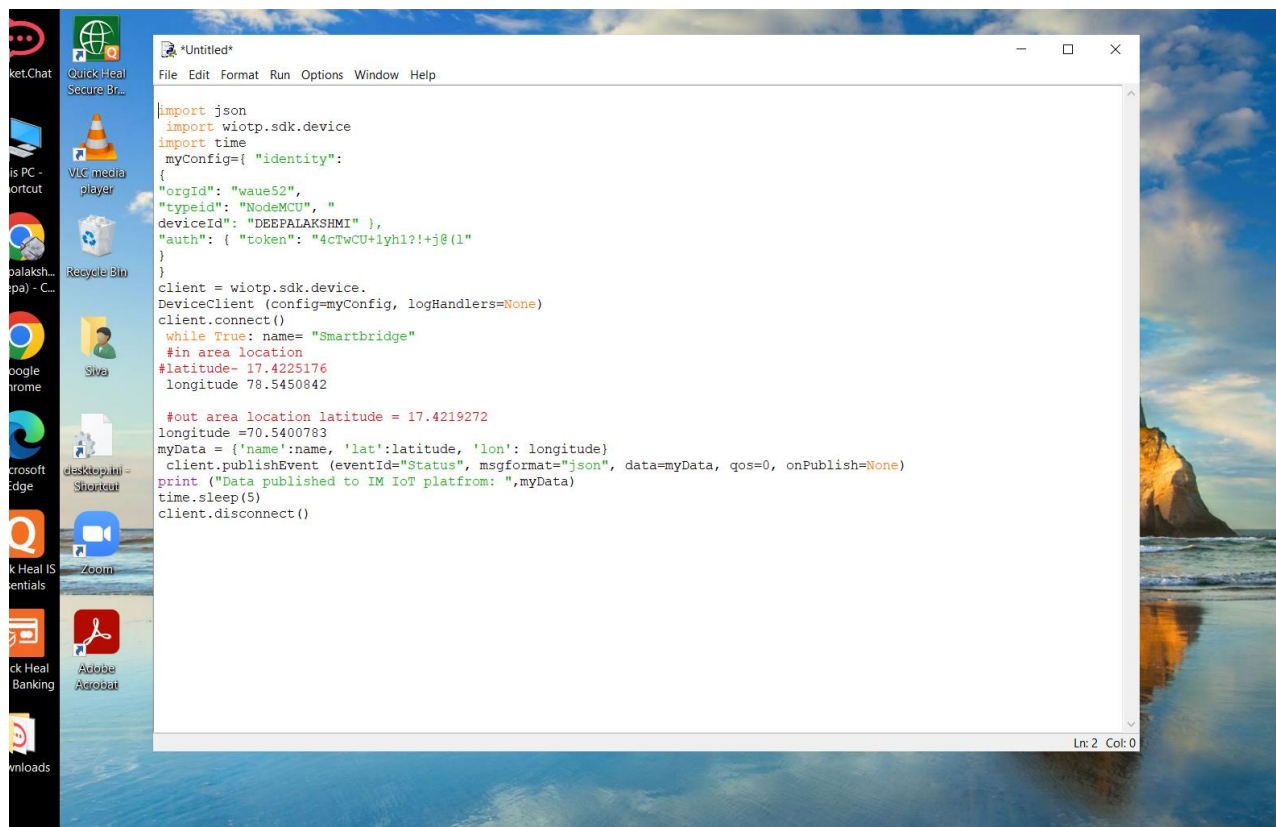
SPRINT-2

Date	10 November 2022
Team ID	PNT2022TMID00975
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring and Notification

Python code :

```
import json
import wiotp.sdk.device
import time
myConfig={ "identity":
{
"orgId": "waue52",
"typeid": "NodeMCU", "
deviceId": "DEEPA" },
"auth": { "token": "4cTwCU+1yh1?!+j@(|"
}
}
client = wiotp.sdk.device.
DeviceClient (config=myConfig, logHandlers=None)
client.connect()
while True: name= "Smartbridge"
#in area location
#latitude- 17.4225176
longitude 78.5450842
```

```
#out area location latitude = 17.4219272
longitude =70.5400783
myData = {'name':name, 'lat':latitude, 'lon': longitude}
client.publishEvent (eventId="Status", msgformat="json", data=myData,
qos=0, onPublish=None)
print ("Data published to IM IoT platfrom: ",myData)
time.sleep(5)
client.disconnect()
```

A screenshot of a Windows desktop environment. The desktop background is a scenic image of a beach with waves and a rocky shore. On the left side, there is a vertical taskbar with various application icons including a chat application, a web browser, a media player, a file explorer, and several utility tools. A code editor window titled 'Untitled*' is open in the center, displaying Python code. The code imports the 'json' and 'wiotp.sdk.device' modules, along with the 'time' module. It defines a configuration dictionary 'myConfig' with fields for 'identity', 'orgId', 'typeId', 'deviceId', and 'auth'. The 'auth' field contains a token. The code then creates a 'client' object using 'wiotp.sdk.device.DeviceClient', connects to the server, and enters a loop where it publishes a JSON message to an IoT platform. The message contains the name of the device and its current location (latitude and longitude). After publishing, it sleeps for 5 seconds and then disconnects. The status bar at the bottom right of the code editor shows 'Ln: 2 Col: 0'.

OUTPUT:

```
Run: child
C:\Users\dell\AppData\Local\Programs\Python\Python311\python.exe C:/Users/dell/AppData/Local/Programs/Python/child.py
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
2022-11-08 20:56:53,786 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:waue52:Tracker:DEEPA
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
Data published to IBM IoT Platform: {'name': 'Child', 'lat': 17.4219272, 'lon': 78.5488783}
```

