

# Project Development

<b>Date</b>	24 October 2022
<b>Team ID</b>	PNT2022TMID21372
<b>Project Name</b>	IoT Based Safety Gadget for Child Safety Monitoring and Notification
<b>Sprint No</b>	Sprint 1

## Python Script

```
import time
import random
#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"phsvnq",
    "type": "CS1",
    "id": "1234",
    "auth-method": "token",
    "auth-token": "123456789"
}
client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])
def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)
while True:
    name= "Childtracker"
```

```
#out area
latitude= 9.95143
longitude= 78.1158
```

**In area:**

```
lotdevice.py - C:\Users\Lenovo\Downloads\lotdevice.py (3,7,2)
File Edit Format Run Options Window Help
#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org": "phsvngq",
    "type": "CS14",
    "id": "i1234",
    "auth-method": "token",
    "auth-token": "123456789"
}

client = ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])

def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)

while True:
    name= "Childtracker"

    #in area
    latitude= 9.8796
    longitude= 78.0810

    #out area
    #latitude= 9.95143
    #longitude= 78.1150

    data={'name': name, 'lat':latitude, 'lon':longitude}
    pub(data)
    client.connectAndCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

**Out area:**

```
lotdevice.py - C:\Users\Lenovo\Downloads\lotdevice.py (3,7,2)
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#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"phsvngq",
    "type": "CS1",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
}

client= ibmiotf.device.Client( config)
client.connect()

def myCommandCallback( cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])

def pub( data):
    client.publishEvent( event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)

while True:
    name= "Childtracker"

    #in area
    #latitude= 9.8796
    #longitude= 78.0810

    #out area
    latitude= 9.95143
    longitude= 78.1158

    data={'name': name, 'lat':latitude,'lon':longitude}
    pub(data)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```