

## Develop the Python Script

### Develop a Python Script

Date	31 October 2022
Team ID	PNT2022TMID12738
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

### Steps

Install json, wiotp, time modules in python and develop a code with corresponding credentials to publish the Latitude and Longitude

```
Child.py - C:/Users/LENOVO/AppData/Local/Programs/Python/Python37/Child.py (3.7.4)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time

myConfig = {
    "identity":{
        "orgId": "cr4s7d",
        "typeId": "NodeMCU",
        "deviceId": "2461"
    },
    "auth": {
        "token": "12345678"
    }
}

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while 1:
    name="Smartbridge"
    #in area location
    #latitude = 17.4225176
    #longitude = 78.5458842

    #out area location

    latitude = 17.4225176
    longitude = 78.5458842
    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()
```



The published data (i.e.) latitude and longitude are seen in Node RED

The screenshot displays the IBM Watson IoT Platform interface. At the top, the browser address bar shows the URL: `cr4s7d.internetofthings.ibmcloud.com/dashboard/devices/browse`. The page header includes the IBM Watson IoT Platform logo and a user profile section with the email `19l114@psgtech.ac.in` and ID `cr4s7d`. A navigation bar contains links for `Browse`, `Action`, `Device Types`, and `Interfaces`, along with an `Add Device` button.

The main content area shows a list of devices. The first device has ID `1` and is `Disconnected`. The second device, highlighted in blue, has ID `2461` and is also `Disconnected`. Below the device list, a modal window titled `Identity` is open, showing the `Recent Events` tab. This tab displays a table of events received from the device.

Event	Value	Format	Last Received
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago