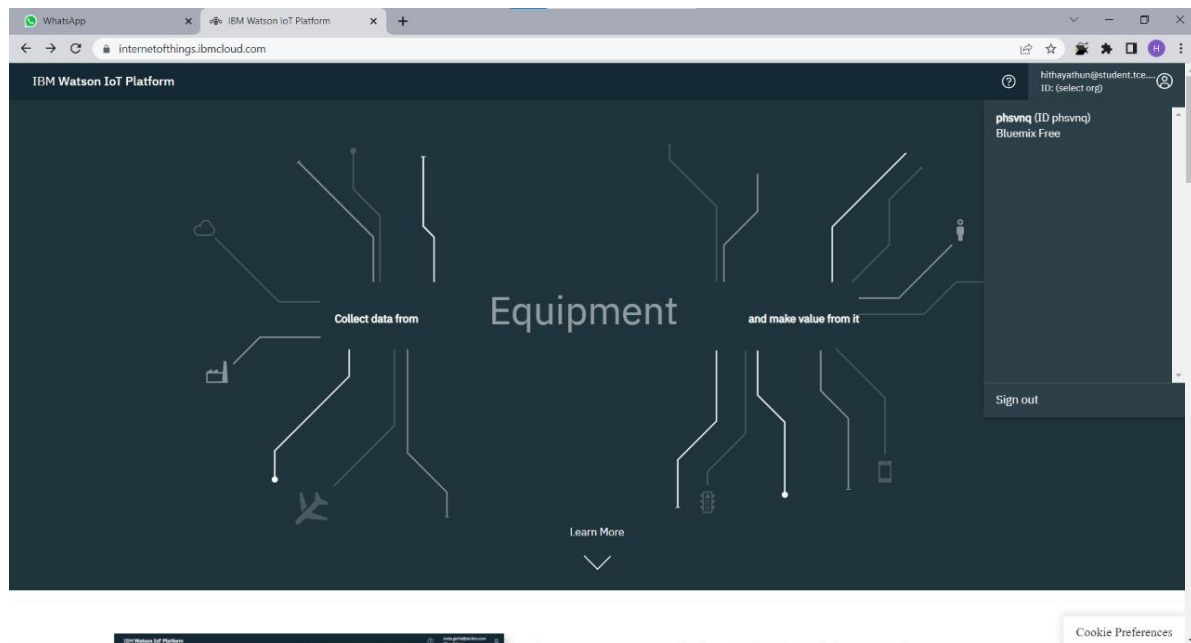


Project Development

Date	31 October 2022
Team ID	PNT2022TMID21372
Project Name	Iot Based Safety Gadget For Child Safety Monitoring & Notification
Sprint	Sprint 2

Creating and connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service :



Creating the Device :

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area shows a table of devices. One device, with ID '1234', is highlighted and its details are expanded below the table. The details include the device's identity, type, date added, and connection status.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	CS1	Device	Nov 17, 2022 9:22 PM	

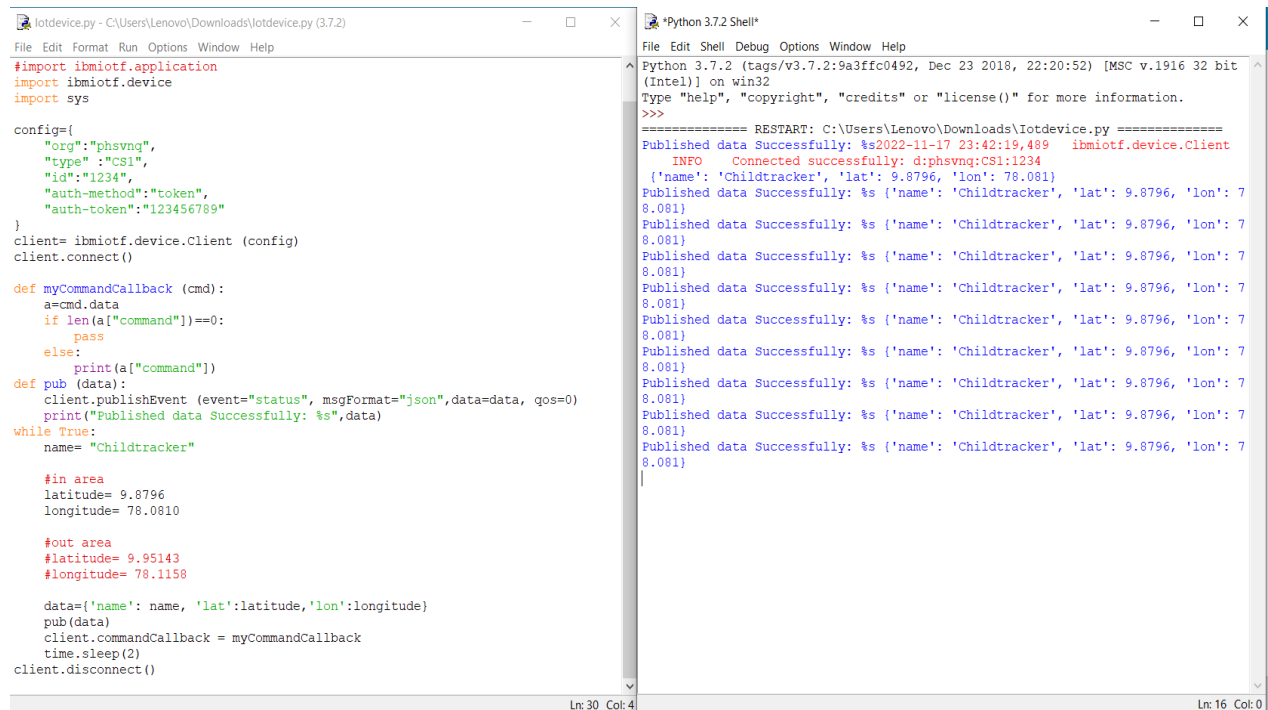
Device Details:

- Device ID:** 1234
- Device Type:** CS1
- Date Added:** Nov 17, 2022 9:22 PM
- Added By:** hithayathun@student.tce.edu
- Connection Status:** Connected
Connection Time: Nov 17, 2022 11:57 PM
Client Address: 106.195.44.159 SecureToken

At the bottom of the dashboard, a status bar indicates '0 Simulations running'.

Connecting IBM Watson and python Code :

In-Area Location:



The screenshot shows a Python script named `iotdevice.py` and its execution output in a Python 3.7.2 Shell. The script configures an IBM IoT client with the following details:

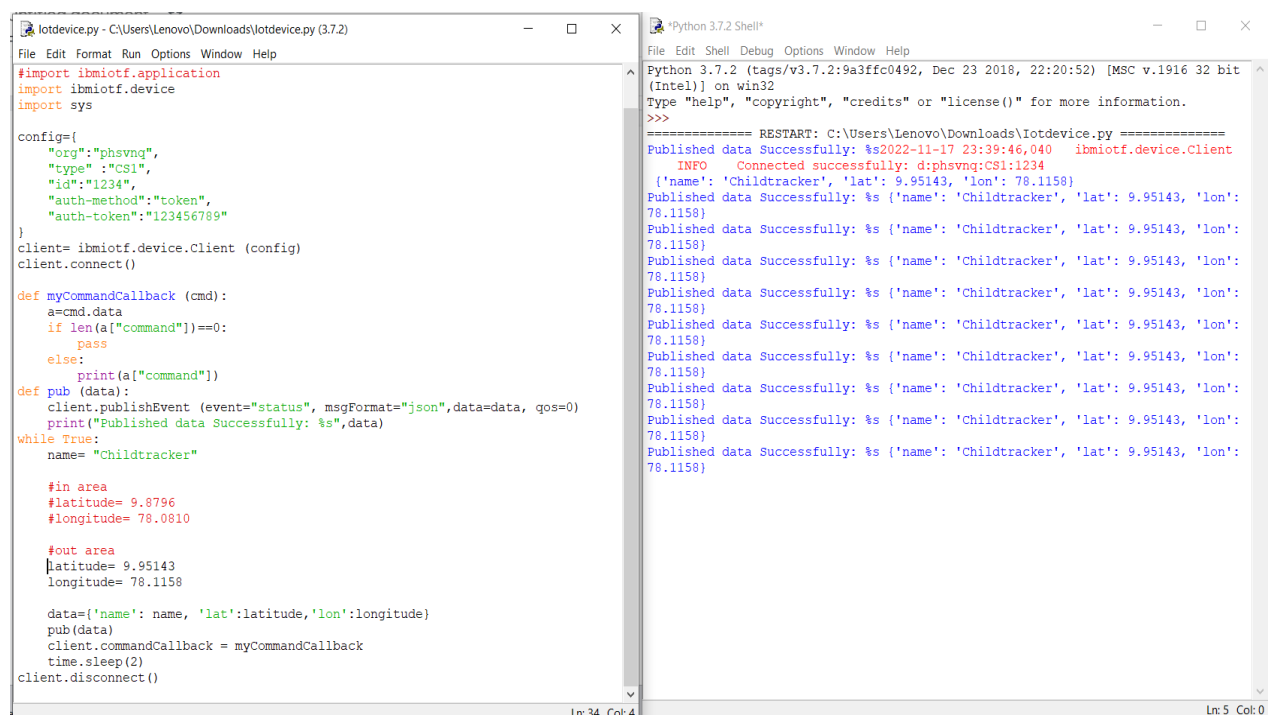
- org: "phsvng"
- type: "CS1"
- id: "1234"
- auth-method: "token"
- auth-token: "123456789"

The script defines a `myCommandCallback` function and a `pub` function. It then connects the client and publishes data for an "in area" location with the following coordinates:

- latitude: 9.8796
- longitude: 78.0810

The output shows the client successfully connecting and publishing data multiple times. The status is "Published data Successfully: %s" and the data is a JSON object containing the name, latitude, and longitude.

Out-Area Location :



The screenshot shows the same Python script `iotdevice.py` and its execution output in a Python 3.7.2 Shell. The script configures the IBM IoT client with the same details as in the previous screenshot. However, the `pub` function is called with "out area" coordinates:

- latitude: 9.95143
- longitude: 78.1158

The output shows the client successfully connecting and publishing data multiple times. The status is "Published data Successfully: %s" and the data is a JSON object containing the name, latitude, and longitude.

The screenshot shows the IBM Watson IoT Platform interface. At the top, there's a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below this is a search bar labeled 'Search by Device ID'. The main content area shows a device with ID '1234' in a 'Connected' state. A dropdown menu is open, showing tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is selected, displaying a table of events. The table has columns: Event, Value, Format, and Last Received. The events are status updates with JSON payloads. A notification at the bottom right says '0 Simulations running'.

Event	Value	Format	Last Received
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago