SPRINT-1

Team ID	PNT2022MID26475
Project Name	IOT Based Safety Gadget for child Safety Monitoring & Notification
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Goal

Develop a python code for publishing the location (latitude and longitude) data.

Step-1

Install python software
python version 3.7.4

Step-2

Install Watson IoT Python SDK to connect to IBM Watson IoT Platform using python code: give the following command in command prompt:

pip install wiotp-sdk

pip install ibmiotf

Step-3

Develop a python script to publish the location details to the IBM IoT platform.

Code

```
import wiotp.sdk.device
import time
import random
import requests, json

myConfig={
  "identity": {
    "orgId": "mci9cn",
    "typeId": "childsafetyy",
```

```python
        "deviceId": "12345"
      },
      "auth": {
        "token":"4z*7Me)HRr59TkVqhI"
        },
}

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

while True:
    name="Smartbridge"
    #in area location
    #latitude-17.4225176
    #longitude-78.5458842
    #out area location
    latitude=17.4225176
    longitude=78.588783
    myData={'name':name,'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)


    time.sleep(5)
client.disconnect()
```

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
import requests, json

myConfig={
    "identity": {
        "orgId": "mci9cn",
        "typeId": "childsafetyy",
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        "auth": {
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    print("Published data Successfully: %s", myData)


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client.disconnect()
```

Step 4

To run the program.

```
Python 3.8.10 (tags/v3.8.10:3d8993a, May  3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=========== RESTART: C:\Users\B.SOMESHWARAN\Documents\child safety.py ===========
2022-11-18 23:03:28,522   wiotp.sdk.device.client.DeviceClient  INFO   Connected successfully: d:mci9cn:childsafetyy:12345
Published data Successfully: %s {'name': 'Smartbridge', 'lat': 17.4225176, 'lon': 78.588783}
Published data Successfully: %s {'name': 'Smartbridge', 'lat': 17.4225176, 'lon': 78.588783}
Published data Successfully: %s {'name': 'Smartbridge', 'lat': 17.4225176, 'lon': 78.588783}
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```