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Team ID	PNT2022TMID06920
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification

Goal:

To develop a python code.

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.

Step-3

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

Python code:

```
Import json
Import wiotp.sdk.device
Import time
Import ibmiotf.application
Import ibmiotf.device
Import random

myConfig = {
  "identity": {
    "orgId": "i7v036",
    "typeId": "NodeMCU",
    "deviceId": "12345"
```

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```
        },
        "auth": {
            "token": "1914111115116117"
        }
    }
Def myCommandCallback(cmd):
    Print("Command received: %s" % cmd.data['command'])
    Status=cmd.data['command']
    If status=="locationon":
        Print ("location is on")
    Elif status == "locationoff":
        Print ("location is off")
    Else :
        Print ("please send proper command")


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

While True:
    Name= "child"
    #in area location

    #out area location
    Latitude= random.randint(10,100)
    Longitude= random.randint(10,100)
    Temperature=random.randint(60,10)
    Geofence = 1
    Mydata={'name': name,
'lat':latitude,'lon':longitude,'temp':temperature,'fence':geofence}
    Client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0,
onPublish=None)
    Print("Data published to IBM IoT platform: ",mydata)
    Time.sleep(20)

    Client.commandCallback = myCommandCallback

Client.disconnect()
```

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Step-4

To run the program.