# **SPRINT-1**

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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```
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 File Edit Format Run Options Window Help
        rt json
rt wiotp.sdk.device
           time
ibmiotf.application
ibmiotf.device
random
      "auth": {
    "token": "1914111115116117"
  myCommandcallback(cnd):
    print("Command received: %s" % cnd.data['command'])
    if status="locationon":
        print("Incation is on")
    elif status="-"locationoff":
        print("location is of")
    elim:
        incation is off")
             print ("please send proper command")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
  name= "child"
*in area location
       Fout area location
       latitude= random.randint(10,100)
longitude= random.randint(10,100)
temperature=random.randint(60,108)
quofence = 1
       qecfence = 1
mydata=['name': name, 'lat':latitude, 'lon':longitude, 'temp':temperature, 'fence':gecfence]
client.publishSwent(eventId="status", magFormat="jsoh", data=mydata, qos=0, onFublish=Nome)
print('Nata published to IBM lot platform: ",mydata)
time.sleep(status)
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```

#### Step-4

#### To run the program.

```
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