

Project Development Phase
Project Development Delivery of Sprint 1

Date	07 September 2022
Team ID	PNT2022TMID13499
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

IoT Based Safety Gadget for Child Safety Monitoring and Notification :

Program Code :

Child.py

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

organization="Iz4nll"
deviceType="Child"
deviceId="12345"
authMethod="token"
authToken="12345678"

try:
    deviceOptions={"org": organization,"type": deviceType,"id": deviceId,"auth-method": authMethod,"auth-token": authToken}
    deviceCli=ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("caught exception connecting device:%s" % str(e))
    sys.exit()

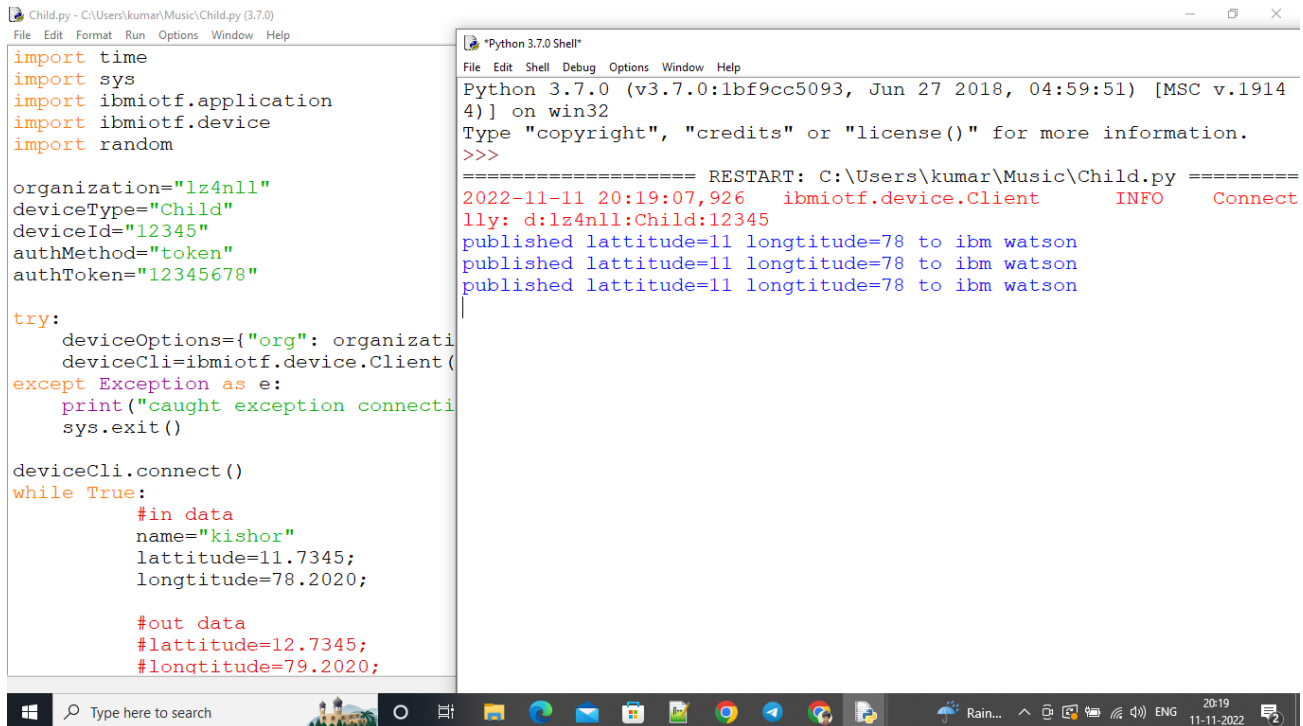
deviceCli.connect()
while True:
    #in data
    name="kishor"
    latitude=11.7345;
    longitude=78.2020;

    #out data
    #latitude=12.7345;
    #longitude=79.2020;

    data={'lat':latitude,'lon':longitude,'name':name}
    def myOnPublishCallback():
        print("published latitude=%d" %latitude,"longitude=%d" %longitude,"to ibm watson")

    success=deviceCli.publishEvent("IotSensor","json",data,qos=0,on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(3)
    deviceCli.disconnect()
```

OUTPUT :



The screenshot shows a Windows desktop with two windows open. The left window is a text editor titled 'Child.py - C:\Users\kumar\Music\Child.py (3,7,0)' containing Python code. The right window is a 'Python 3.7.0 Shell' showing the execution output of the script.

```
Child.py - C:\Users\kumar\Music\Child.py (3,7,0)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

organization="lz4nll"
deviceType="Child"
deviceId="12345"
authMethod="token"
authToken="12345678"

try:
    deviceOptions={"org": organization}
    deviceCli=ibmiotf.device.Client(
except Exception as e:
    print("caught exception connecti
    sys.exit()

deviceCli.connect()
while True:
    #in data
    name="kishor"
    latitude=11.7345;
    longitude=78.2020;

    #out data
    #latitude=12.7345;
    #longitude=79.2020;
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\kumar\Music\Child.py =====
2022-11-11 20:19:07,926 ibmiotf.device.Client INFO Connect
lly: d:lz4nll:Child:12345
published latitude=11 longitude=78 to ibm watson
published latitude=11 longitude=78 to ibm watson
published latitude=11 longitude=78 to ibm watson
```

The Windows taskbar at the bottom shows the Start button, a search bar, and several application icons including File Explorer, Edge, Mail, and various utility tools. The system tray on the right indicates the time as 20:19 and the date as 11-11-2022.