Date	11th november 2022
Team ID	PNT2022TMID10102
Project Name	Real-time River Water Quality Monitoring System
Maximum Marks	2 Marks

Develop a python code for publishing random sensor data to the IBM IoT Platform:

```
import wiotp.sdk.device import time import os import datetime import random

myConfig = {

"identity": {

"orgId": "hjSfmy",

"typeId":"NodeMCU

", "deviceId":"12345"

},

"auth": {

"token": "12345678"

}

}

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

```python
def myCommandCallback (cmd) : print ("Message received from IBM IoT Platform: %s" %
cmd.data['command']) m=cmd.data['command'] if (m=="motoron"): print ("Motor is switched on")

elif (m=="motoroff"):

print ("Motor is switched OFF")

print (" ")

while True: sen=random.randint (0,100) temp=random.randint (-20, 125) hum=random.randint (0,
100)

myData={'sensor value ': sen,'temperature':temp, 'humidity':hum}

client.publishEvent (eventId="status", msgFormat="json", data=myData, qos=0 , onPublish=None)

print ("Published data Successfully: %s", myData) time.sleep (2)

client.commandCallback = myCommandCallback client.disconnect ()
```

```python
main.py
1  import wiotp.sdk.device import time
2  import os import datetime import random myConfig = {
3  "identity": {
4  "orgId": "hjSfmy", "typeId":"NodeMCU", "deviceId":"12345"
5  },
6  "auth": {
7  "token": "12345678"
8  }
9  }
10 client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None) client.connect ()
11
12 def myCommandCallback (cmd) :
13 print ("Message received from IBM IoT Platform: %s" % cmd.data['command']) m=cmd.data['command']
14 if (m=="motoron"):
15 print ("Motor is switched on") elif (m=="motoroff"):
16 print ("Motor is switched OFF") print (" ")
17 while True: sen=random.randint (0,100)
18 temp=random.randint (-20, 125)
19 hum=random.randint (0, 100)
20 myData={'sensor value ': sen,'temperature':temp, 'humidity':hum}
21 client.publishEvent (eventId="status", msgFormat="json", data=myData, qos=0 , onPublish=None)
22 print ("Published data Successfully: %s", myData)
23 time.sleep (2)
24 client.commandCallback = myCommandCallback client.disconnect ()
```

Thus the assigned task for developing a python code for publishing random

Sensor data to the ibm iot platform is completed sucessfully