CREATING IBM CLOUD SERVICE

Team ID	PNT2022TMID41957
Project Name	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

code:

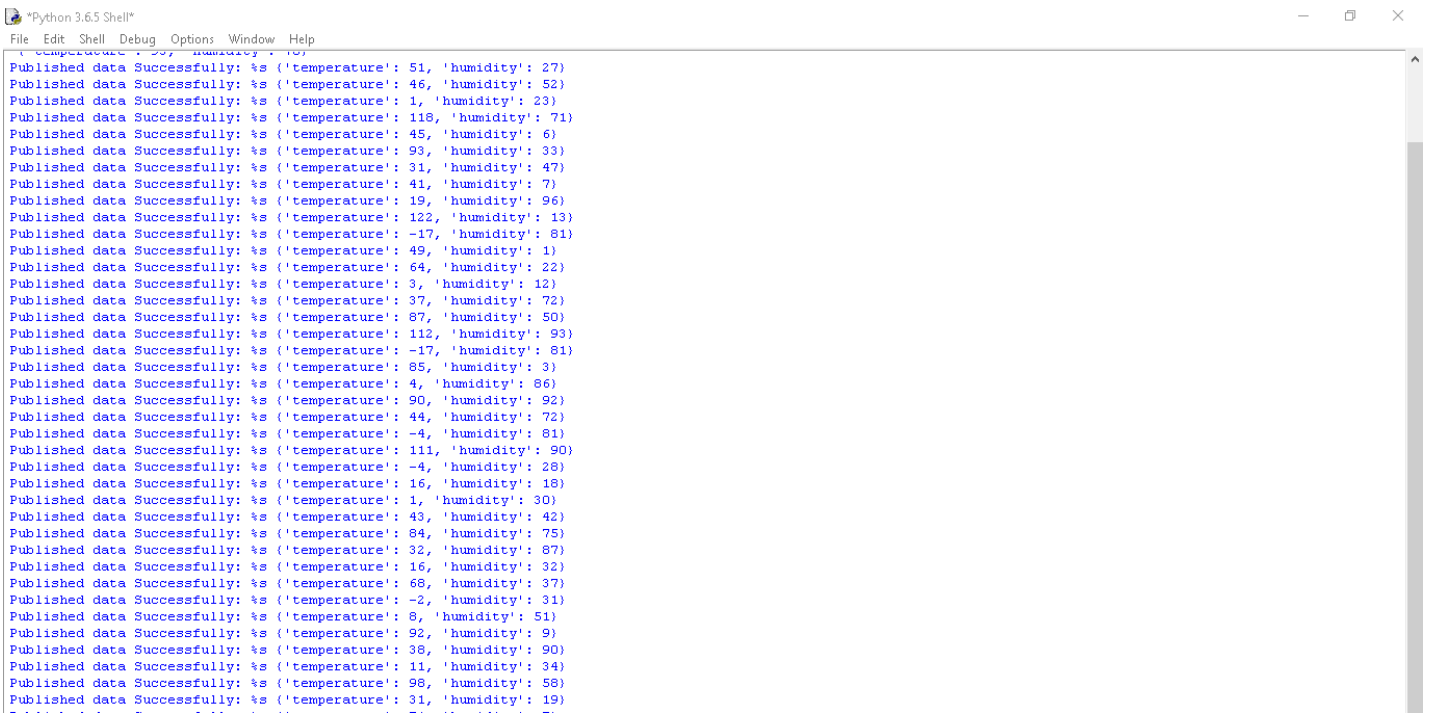
```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
   "identity": {
      "orgId": "sa9xfa",
      "typeId": "NodeMCU",
      "deviceId":"9789"
   },
   "auth": {
      "token": "622519106038"
   }
}

def myCommandCallback(cmd):
   print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
   m=cmd.data['command']

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

while True:
   temp=random.randint(-20,125)
   hum=random.randint(0,100)
   myData={'temperature':temp, 'humidity':hum}
   client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
   print("Published data Successfully: %s", myData)
   client.commandCallback = myCommandCallback
   time.sleep(2)
client.disconnect()
```

output


Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Published data Successfully: %s {'temperature': 51, 'humidity': 27}
Published data Successfully: %s {'temperature': 46, 'humidity': 52}
Published data Successfully: %s {'temperature': 1, 'humidity': 23}
Published data Successfully: %s {'temperature': 118, 'humidity': 71}
Published data Successfully: %s {'temperature': 45, 'humidity': 6}
Published data Successfully: %s {'temperature': 93, 'humidity': 33}
Published data Successfully: %s {'temperature': 31, 'humidity': 47}
Published data Successfully: %s {'temperature': 41, 'humidity': 7}
Published data Successfully: %s {'temperature': 19, 'humidity': 96}
Published data Successfully: %s {'temperature': 122, 'humidity': 13}
Published data Successfully: %s {'temperature': -17, 'humidity': 81}
Published data Successfully: %s {'temperature': 49, 'humidity': 1}
Published data Successfully: %s {'temperature': 64, 'humidity': 22}
Published data Successfully: %s {'temperature': 3, 'humidity': 12}
Published data Successfully: %s {'temperature': 37, 'humidity': 72}
Published data Successfully: %s {'temperature': 87, 'humidity': 50}
Published data Successfully: %s {'temperature': 112, 'humidity': 93}
Published data Successfully: %s {'temperature': -17, 'humidity': 81}
Published data Successfully: %s {'temperature': 85, 'humidity': 3}
Published data Successfully: %s {'temperature': 4, 'humidity': 86}
Published data Successfully: %s {'temperature': 90, 'humidity': 92}
Published data Successfully: %s {'temperature': 44, 'humidity': 72}
Published data Successfully: %s {'temperature': -4, 'humidity': 81}
Published data Successfully: %s {'temperature': 111, 'humidity': 90}
Published data Successfully: %s {'temperature': -4, 'humidity': 28}
Published data Successfully: %s {'temperature': 16, 'humidity': 18}
Published data Successfully: %s {'temperature': 1, 'humidity': 30}
Published data Successfully: %s {'temperature': 43, 'humidity': 42}
Published data Successfully: %s {'temperature': 84, 'humidity': 75}
Published data Successfully: %s {'temperature': 32, 'humidity': 87}
Published data Successfully: %s {'temperature': 16, 'humidity': 32}
Published data Successfully: %s {'temperature': 68, 'humidity': 37}
Published data Successfully: %s {'temperature': -2, 'humidity': 31}
Published data Successfully: %s {'temperature': 8, 'humidity': 51}
Published data Successfully: %s {'temperature': 92, 'humidity': 9}
Published data Successfully: %s {'temperature': 38, 'humidity': 90}
Published data Successfully: %s {'temperature': 11, 'humidity': 34}
Published data Successfully: %s {'temperature': 98, 'humidity': 58}
Published data Successfully: %s {'temperature': 31, 'humidity': 19}