

## DEVELOPING PYTHON SCRIPT

### LOCATION DATA:

```
import wiotp.sdk.device
import time
import random
myConfig={
    "identity": (
        "orgId": "gagtey",
        "typeId": "GPS",
        "deviceId":"12345"},
    "auth": {
        "token": "12345678"
    }
}
def myCommandCallback
(cmd):
    print ("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    mcmd.data['command']
    client= wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
    client.connect()
    def pub (data):
        client.publishEvent (eventId="status", msgFormat="json", data=myData, qos=0,
        print("Published data Successfully: %s", myData)
    while True:
        myData={'name':
        'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
        pub (myData)
        time.sleep (3)
        #myData({'name': 'Train2', 'lat': 17.6387448, 'lon': 78.4754336}
        #pub (myData)
        #time.sleep
        (3)
        myData={'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
        pub (myData)
        time.sleep(3)
```

```

myData={'name': 'Trainl', 'lat': 17.6340889, 'lon': 78.4745052)
pub (myData) time.sleep(3)
myData={'name': 'Trainl', 'lat': 17.6248626, 'lon': 78.4720259)
pub (myData) time.sleep (3)
myData={'name': 'Trainl', 'lat': 17.6188577, 'lon': 78.4698726)
pub (myData) time.sleep (3)
myData={'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4707318)
pub (myData) time.sleep (3)
client.commandCallback = myCommandCallback client.disconnect()

```

### **QR SCANNER CODE:**

```

Import cv2 import
numpy as np import
time
Import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1 from
ibmcloudant import CouchDbSessionAuthenticator from
ibm_cloud_sdk_core.authenticators import BasicAuthenticator
authenticator= BasicAuthenticator ('apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz', 'b0ab119f45d3e6255eabb978 service
Cloudant V1 (authenticator-authenticator) service.set_service_url('https://apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119f45d3e6255eabb978e7e2f0
cap= cv2.VideoCapture (0) font cv2.FONT_HERSHEY_PLAIN while True: frame
cap.read() decodedobjects pyzbar.decode (frame) for obj in decodedObjects: #print ("Data",
obj.data) a=obj.data.decode('UTF-8') cv2.putText (frame, "Ticket", (50, 50), font, 2,
(255, 0, 0), 3) #print
(a)
try: response = service.get_document (
db='booking, doc_id = a ).get_result()
print (response) time.sleep(5) except
Exception as e: print ("Not a Valid

```

```
Ticket") time.sleep (5)
cv2.imshow("Frame", frame) if
cv2.waitKey(1) & 0xFF==ord('q'):
break cap.release()
cv2.destroyAllWindows ()
client.disconnect()
```